



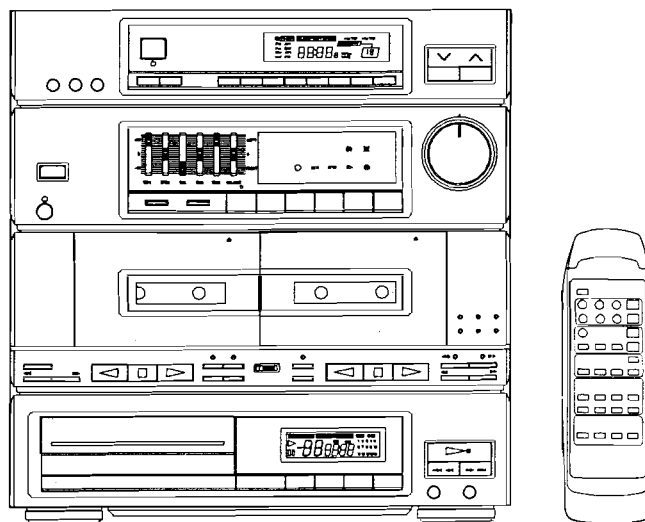
SAMS -00142

SAMSUNG

SERVICE MANUAL

MODEL: SCM 8550

HI-FI MUSIC CENTER WITH COMPACT DISC PLAYER



SPECIFICATIONS

GENERAL SECTION

Power Consumption	: 170W
Dimension	: 350(W) x 353(H) x 282(D)mm
Weight	: 8Kg
Power source	: See the label rating

RADIO SECTION

LW BAND

Frequency Range	: 146KHz ~ 290KHz
Usable Sensitivity	: 1000 μ V
Signal to Noise Ratio	: 35dB

AM(MW) BAND

Frequency Range	: 522KHz ~ 1611KHz
Usable Sensitivity	: 600 μ V
Signal to Noise Ratio	: 40 dB

FM BAND

Frequency Range	: 87.5MHz ~ 108MHz
Usable Sensitivity	: 6 μ V
Signal to Noise Ratio	: 60 dB

Total Harmonic Distortion	: 0.8%
Separation (W/HF A)	: 40 dB

TAPE SECTION(RECORD/PLAYBACK)

RECORD/PLAYBACK

Frequency Range	: 30Hz ~ 12.5KHz
Signal to Noise Ratio	: 45 dB
Separation	: 35 dB
Total Harmonic Distortion	: 4.0%
Erasing Effect	: 60 dB
Wow & Flutter	: 0.2%

COMPACT DISC PLAYER SECTION

Frequency Range	: 20Hz ~ 20KHz
Signal to Noise Ratio	: 70 dB
Total Harmonic Distortion	: 0.15%
Channel Separation	: 50 dB
D/A Conversion	: 16 bits

* Design and specifications are subject to change upon improvement without prior notice.

* Frequency range in radio section can be a little different from the above in accordance with frequency step or region.

CONTENTS

■ SAFETY PRECAUTION	2
■ SERVICING NOTE	3
■ LOCATION OF CONTROLS	
1. FRONT	4
2. REAR	5
3. REMOTE CONTROL	6
■ DISASSEMBLY INSTRUCTION	7
■ BASIC CIRCUIT OPERATION	
1. TUNER	8
2. TAPE	8
3. CD	10
■ TROUBLE SHOOTING	
1. MAIN	15
2. CD	18
■ ADJUSTMENT	
1. TUNER	21
2. TAPE	23
3. CD	24
■ BLOCK DIAGRAM	25
■ SCHEMATIC DIAGRAM	26
■ WIRING DIAGRAM	29
■ IC & TR INTERNAL DIAGRAM	
1. MAIN	32
2. CD	36
■ EXPLODED VIEW & PARTS LIST	
1. MAIN	39
2. CASSETTE DECK ASSEMBLY	41
3. CD DECK ASSEMBLY	43
4. REMOTE CONTROL ASSEMBLY	44
■ ELECTRICAL PARTS LIST	45
■ ABBREVIATION	50

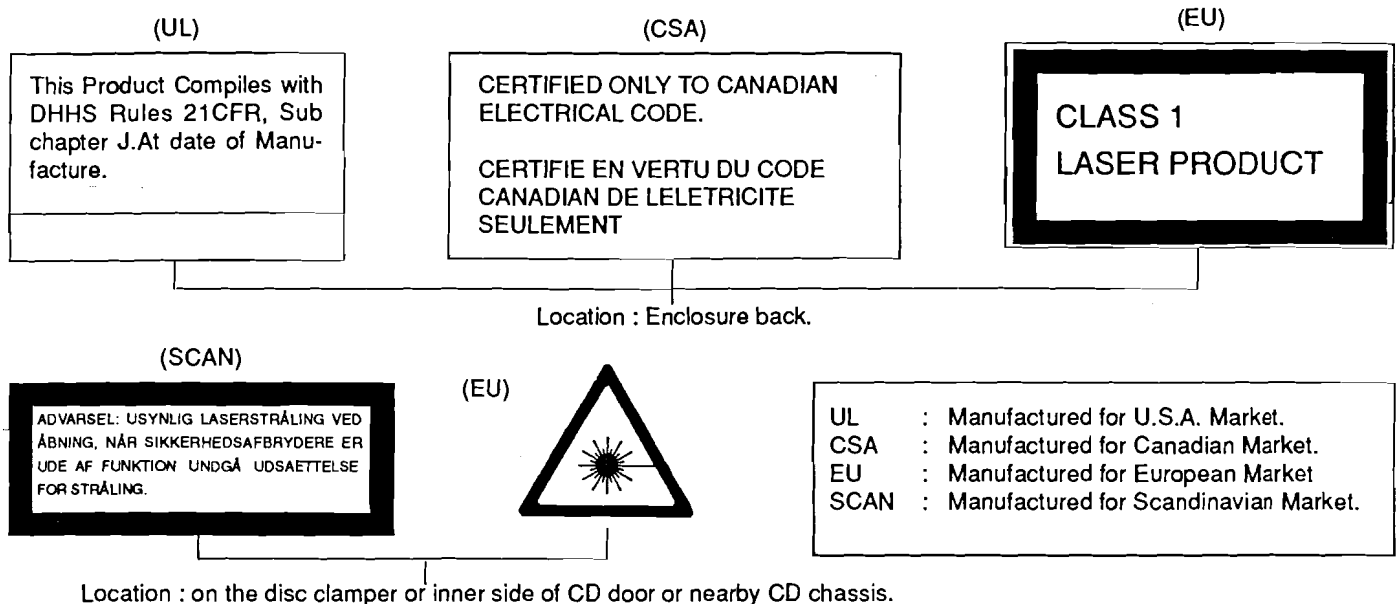
■ SAFETY PRECAUTION

1. CLASS 1 LASER PRODUCT

This compact disc player is classified as a CLASS 1 laser product.

2. LASER WARNING LABEL

The label shown below may be affixed or not according to country.



3. LASER BEAM WARNING

- ADVERSEL —** USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
- VARNING —** OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRALEN ÄR FARLIG.
- VARITUS —** LAITE SISÄLTÄÄ LASERDIODIN, JOKA LÄHETTÄÄ NÄKYMÄTÖNTÄ SILMILLE VAARALLISTA LASERSATEILYÄ.
- CAUTION —** INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

4. LASER DIODE SPECIFICATION (OPTICAL PICK-UP)

- o Material: AlGaAs
- o Wavelength: 760-800 nm
- o Emission duration: Continuous
- o Laser Output: 0.2mW
- * This output is the value measured at distance 1.6mm from the objective lens surface on the optical pick-up block.
- o Classification: CLASS 1

5. WARNING FOR SERVICING

- WARNING:** When servicing, do not approach the LASER exit with the eye too closely. In case it is necessary to confirm LASER beam emission, be sure to observe from a distance of more than 30cm from the surface of the objective lens on the optical pick-up block.
- VARNING:** När underhållningsarbeten utförs, närma dig försiktigt och se inte på laserutstrålningen på för nära håll. Ifall det är nödvändigt att betrygga laserstrålens utströmning. Var säker att kontrollera detta från ett avstånd av mer än 30cm (11.81 inch.) från den objektiva linsens yta på den optiska utsändningspunkten.
- ADVARSEL:** Når repareringsarbejdet udføres, naerm dig forsigtigt og se ikke på laserudstrålningen på for naer hånd. I tilfaeldet at det er noedvaendigt at bestemme laserstrålens udstråling. Vaer sikker på kontrollere dette fra en afstand af mere end 30cm (11.81 inch.) fra den objektive linses overflade på den optiske udsendningspunkt.
- VAROITUS:** Silmiä on varottava viemästä liian läheille Laser-poistokanavaa huoiion aikana. Jos on välttämätöntä varmistaa Laser-Säteen päästö, pysyttels sitä tarkasteltaessa vähintään 30cm etäiydellä optisen lukon objektiivinlinssin pinnasta.

■ SERVICING NOTE

1. Prevent shock hazard by unplugging power supply cord before opening cabinet.
2. Avoid repairing under direct sunshine and heat which may cause cabinet, transistor and IC to be transformed or misoperate.
3. Use a soft cotton swab moistened with warm water or neutral cleaner when parts of unit need to be cleaned.
4. When replacing parts with safety features built in, be sure to use specified parts with same specs only.
5. Avoid repairing the set near TV or any other magnetic forces.
6. Disconnect plug from wall socket during electric storm to reduce the risk of damage.
7. Be careful of electrostatic source when using control IC.
8. Be sure not to separate the pick-up from the unit.

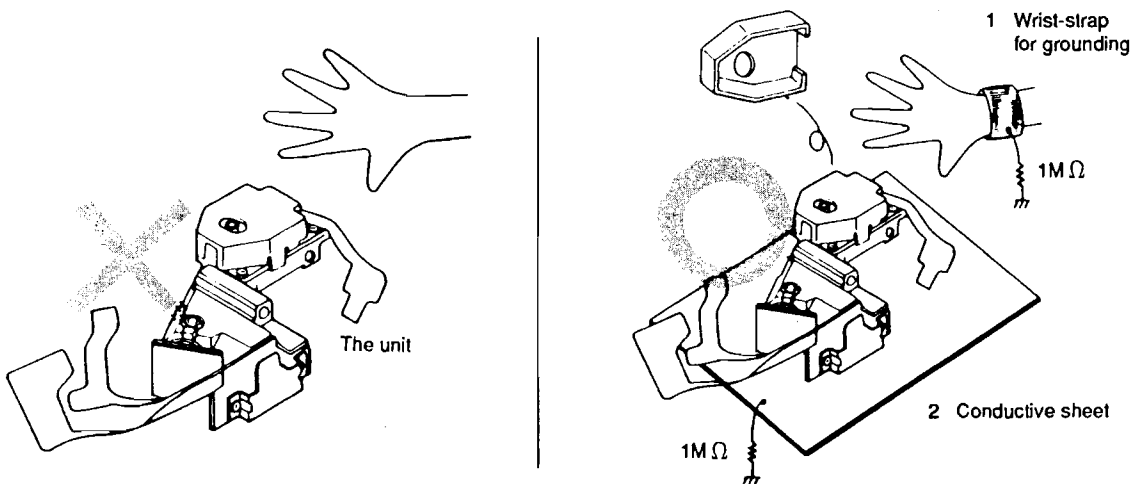
HANDLING THE OPTICAL PICK-UP

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

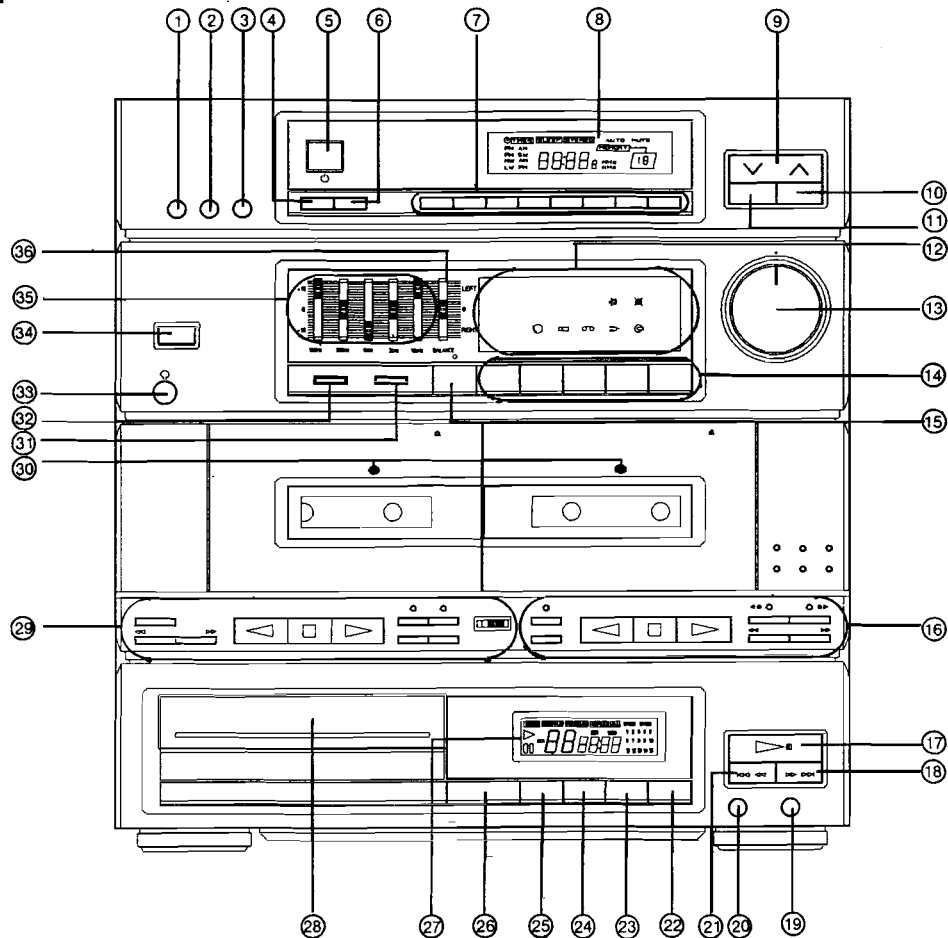
1. Place a conductive sheet on the work bench (The black sheet used as wrapping for repair parts).
 2. Place the set on the conductive sheet so that the chassis is grounded to the sheet.
 3. Place your hands on the conductive sheet (This gives them the same ground as the sheet).
 4. Remove the optical pick up block.
 5. Perform work on top of the conductive sheet.
- Be careful not to let your clothes or any other static sources to touch the unit.

- * Be sure to put on a wrist strap grounded to the sheet.
- * Be sure to lay a conductive sheet made of copper etc. which is grounded to the table.



■ LOCATION OF CONTROLS

1. FRONT



- | | |
|-------------------------------|--------------------------------|
| 1. TIMER ON BUTTON | 21. SKIP/SEARCH BUTTON () |
| 2. CLOCK BUTTON | 22. STOP/CLEAR BUTTON |
| 3. SLEEP BUTTON | 23. PROGRAM BUTTON |
| 4. AUTOSCAN BUTTON | 24. REPEAT BUTTON |
| 5. REMOTE SENSOR | 25. DISPLAY BUTTON |
| 6. BAND BUTTON | 26. OPEN/CLOSE BUTTON |
| 7. PRESET STATION BUTTON | 27. CD DISPLAY |
| 8. TUNER/TIMER DISPLAY | 28. CD DOOR |
| 9. TUNING UP/DOWN BUTTON | 29. A DECK |
| 10. MEMORY BUTTON | STOP BUTTON () |
| 11. MODE (STEREO/MONO) BUTTON | PLAY BUTTON (or) |
| 12. FUNCTION DISPLAY | FAST FORWARD BUTTON () |
| 13. VOLUME | REWIND BUTTON () |
| 14. FUNCTION SELECTOR BUTTON | LONG PLAY BUTTON |
| 15. MUTE BUTTON | AUTOREVERSE BUTTON |
| 16. B DECK | CD SYNCRO RECORD BUTTON |
| STOP BUTTON () | HI-SPEED DUBBING BUTTON |
| PLAY BUTTON (or) | NORMAL SPEED DUBBING BUTTON |
| FAST FORWARD BUTTON () | DOLBY NR ON/OFF SWITCH |
| REWIND BUTTON () | 30. A/B DECK DOOR EJECT BUTTON |
| RECORD BUTTON (● or ●) | 31. SURROUND BUTTON |
| RECORD MUTE BUTTON | 32. C.F.B.S. BUTTON |
| RECORD PAUSE BUTTON | 33. HEADPHONE JACK |
| 17. PLAY/PAUSE BUTTON () | 34. POWER BUTTON |
| 18. SKIP/SEARCH BUTTON () | 35. 5 BAND GRAPHIC EQUALIZER |
| 19. SHUFFLE PLAY BUTTON | 36. BALANCE |
| 20. INTRO SCAN BUTTON | |

* How to set the current time.

- (1) Turn the power on by pressing the POWER button.
- (2) Press the CLOCK button, then the current time will be indicated.
- (3) Hold the CLOCK button and at the same time press MEMORY/CHECK button twice.
The display should now be flashing.
- (4) Using the TUNING DOWN/HOUR, UP/MIN buttons, enter the current time of day.
- (5) Press the MEMORY/CHECK button, then the current time correction will be completed.
The display will now stop flashing and maintain current time.

* How to set the timer operating time.

The TIMER function can be used to switch on the system automatically at a pre-set time. These functions are operated only by remote control.

- (1) Press the CLOCK button once-the current time will be displayed.
- (2) Press the MEMORY button again with the MEMORY button on.
- (3) Release both buttons.

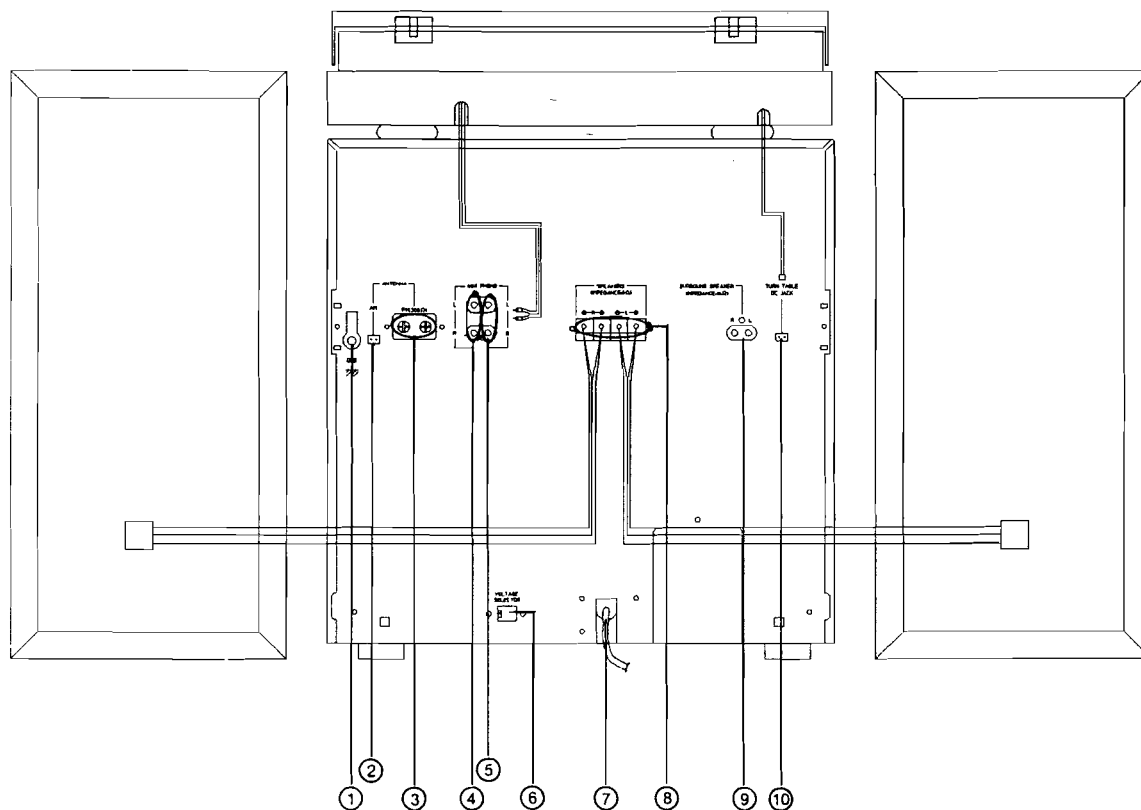
- (4) Press the MEMORY button once again. The display will now commence to flash f and TIMER will be displayed.
- (5) Using the TUNING DOWN/HOUR, UP/MIN button sets the time that you desire.
- (6) Press the MEMORY button twice and the display will revert to the current time of day.
- (7) Select the TUNER function which you wish to commence at the programmed time-TUNER.
- (8) Finally switch the system off with the POWER button. The system is then in the stand-by mode and will automatically switch on at the programmed time.
- (9) Once programmed the timer action may be selected as required by pressing the TIMER ON button. One press to switch on, a further press to switch off. The display will indicate TIMER when the system is in the TIMER mode.

NOTE:

Each time TUNING DOWN/HOUR button is pressed for setting the current time the time advances by one hour. Pressing TUNING UP/MIN button advances the time by one minute.

The hour and minute counters will advance continuously when these buttons are held pressed down.

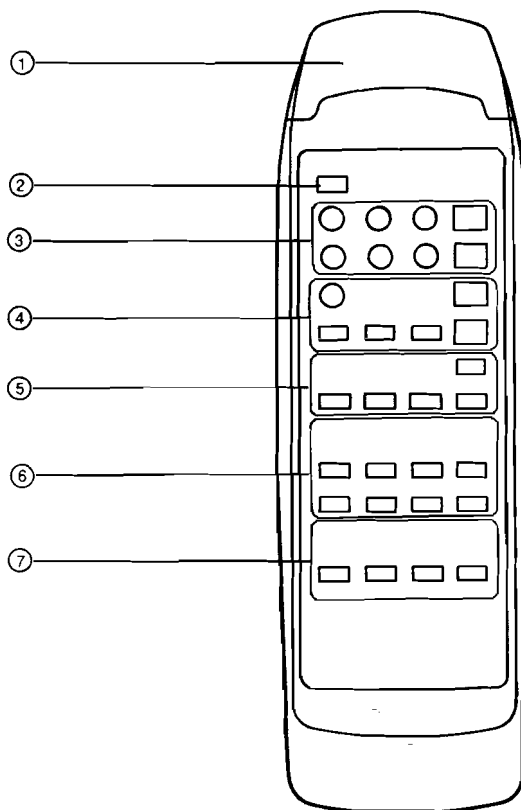
2. REAR



1. TURN TABLE GROUND TERMINAL
2. AM ANTENNA JACK
3. FM ANTENNA TERMINAL
4. AUX JACK
5. PHONO INPUT JACK

6. VOLTAGE SELECTOR (OPTIONAL)
7. POWER CORD
8. SPEAKER TERMINAL
9. SURROUND SPEAKER JACK
10. TURN TABLE DC JACK

3. REMOTE CONTROL



1. INFRARED BEAM TRANSMIT WINDOW

2. POWER BUTTON

3. AMP SECTION

TUNER BUTTON
PHONO BUTTON
TAPE BUTTON
CD BUTTON
AUX BUTTON
MUTE BUTTON
VOLUME UP (+)/DOWN (-) BUTTON

4. TUNER SECTION

SLEEP BUTTON
TUNING UP (^)/DOWN (v) BUTTON
BAND SELECT BUTTON
PRESET UP (^)/DOWN (v) BUTTON

5. A DECK SECTION

STOP (■) BUTTON
REWIND (◀◀) BUTTON
FAST FORWARD (▶▶) BUTTON
PLAY (◀ or ▶) BUTTON
F.PLAY : FORWARD PLAY BUTTON
R.PLAY : REVERSE PLAY BUTTON

6. B DECK SECTION

STOP (■) BUTTON
REWIND (◀◀) BUTTON
FAST FORWARD (▶▶) BUTTON
PLAY (◀ or ▶) BUTTON
F.PLAY : FORWARD PLAY BUTTON
R.PLAY : REVERSE PLAY BUTTON
RECORD (◀● or ●▶) BUTTON
F.REC : FORWARD RECORD BUTTON
R.REC : REVERSE RECORD BUTTON
RECORD MUTE BUTTON (●)

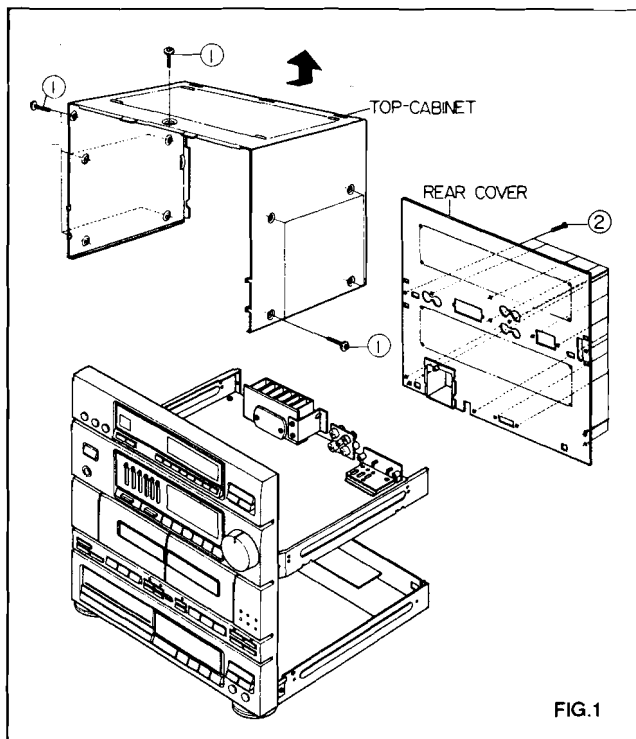
7. CD SECTION

PLAY/PAUSE (▶■) BUTTON
STOP (■) BUTTON
SKIP DOWN BUTTON (SKIP, ◀◀)
SKIP UP BUTTON (SKIP, ▶▶)

■ DISASSEMBLY INSTRUCTION

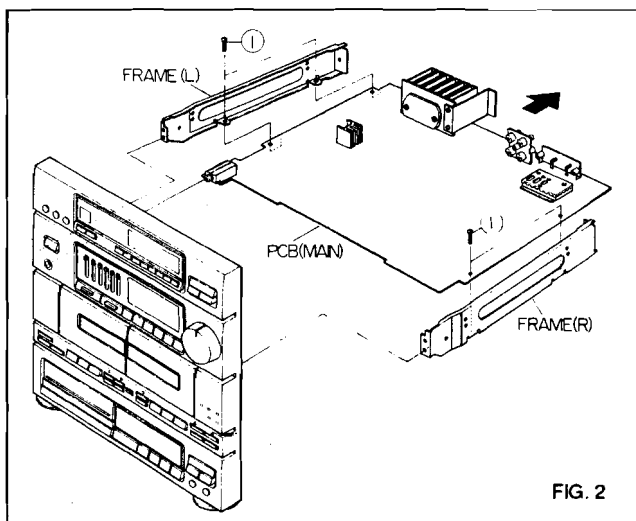
1. TOP CABINET & REAR COVER

- 1) Press CD OPEN/CLOSE button.
- 2) Remove DOOR GUIDE. (FIG. 4)
- 3) Release 10 screws (①).
- 4) Remove TOP CABINET.
- 5) Release 16 screws (②).
- 6) Remove REAR COVER.



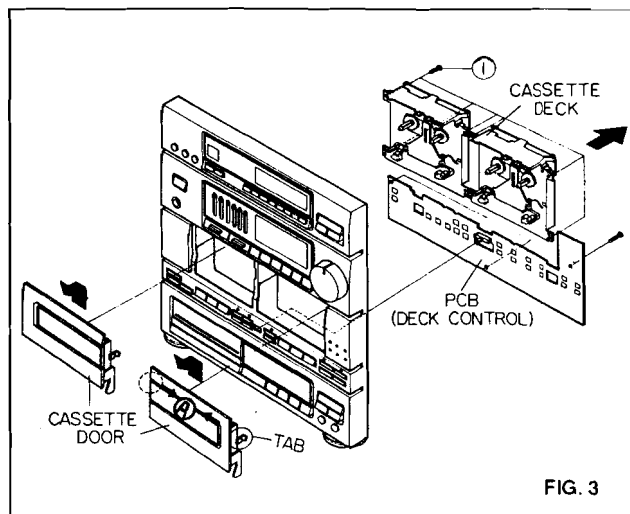
2. MAIN PCB

- 1) Release 4 screws (①).
- 2) Remove MAIN PCB.



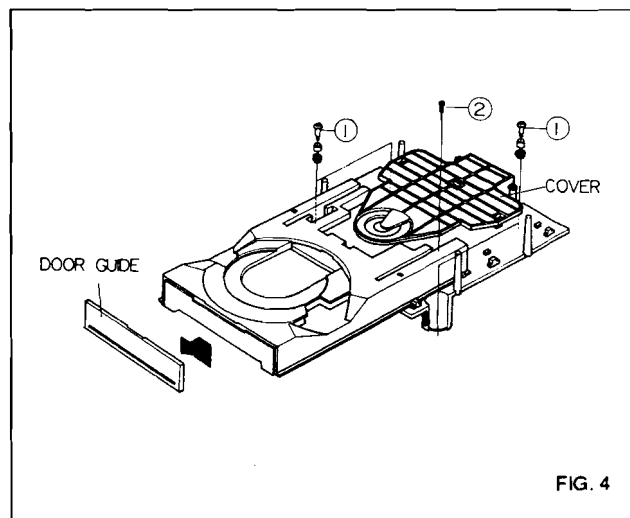
3. CASSETTE DECK ASSEMBLY

- 1) Press STOP/EJECT button.
- 2) Press TAP (direction A) and pull out CASSETTE DOOR.
- 3) Release 8 screws (①).



4. CD DECK ASSEMBLY

- 1) Release 4 screws (①).
- 2) Remove CD DECK mechanism.
- HOW TO DISASSEMBLY DISC TRAY. (In case of power failure)
- (A) Release 1 screw (②).
- (B) Lift TRAY COVER UP and remove the TRAY adjusting gear at the bottom.



■ BASIC CIRCUIT OPERATION

1. TUNER SECTION

● LC7232-8380 (DTS PLL IC) : UIC1

* H : HIGH, L : LOW
* I : INPUT, O : OUTPUT

PIN No.	PIN NAME	I/O	OPERATION	ACTIVE
1	XIN	I	Crystal oscillating port. (4.5MHz)	—
80	XOUT	O	Crystal oscillating port. (4.5MHz)	—
2, 79	TEST1, 2	I	Connect to GND	—
3	REMOCON	I	Remote control input port. If it is open, it may cause Remote Control to maloperate.	L
4	STEREO	I	LOW : Stereo indicator on	L
7	CE2	O	System control	L
8 – 11	FM, MW, LW, SW	O	Band power convert port. CD Remote control signal port.	L
12	VR UP	O	If volume up signals are input, it outputs high voltage.	H
13	VR DOWN	O	If volume down signals are input, it outputs high voltage.	H
14	MO/ST	O	Mono stereo selection port.	H
15 ~17	CE, DO, CLK	O	LC7821 control port. (serial data line)	H, H, $\overline{L}$
18	IF CNT	O	IF signal output port. If low voltage is input to SD port (LA1851N) during auto search, it changes from low to high.	H
19	NARROW	O	CD remote control signal port.	H
20	POWER OUT	O	Power control port.	H
21	A MUTE	O	Audio mute port.	L
22	STB	O	DATA STROBO port of LC74HC375.	H
23 – 26	T7 – T4	O	Transmit data to LC74HC375 (TAPE, TUNER, AUX, PHONO)	H
27 – 30	T3 – T0	O	Key scan output signal.	H
32 – 35	K3 – K0	I	Key input signal.	H
5 – 6	K5, K4	I	Diode matrix input signal.	H
63 – 36	S1 – S28	O	LCD Segment drive port.	—
65, 64	COM1, 2	O	LCD Common drive port.	—
67	HOLD	I	L—Back up mode.	L
69	SD	I	Broadcast receiving port.	L
70	HCTR	I	FM IF Signal input port.	—
71	LCTR	I	AM IF Signal input port.	—
72	SNS	I	Transmit data to LC7821, 74HC375	H
74, 75	FM IN, AM IN	I	Input local OSC signal.	—
78, 77	EO1, 2	O	Phase comparison output signal.	
66	INT	I	Remote control input port.	
31, 73	VDD			
76	Vss			
68	RES		LOW : All reset	

2. TAPE SECTION

● LC66508-4517 (μ -COM IC) : UDIC 1

PIN No.	PIN NAME	I/O	OPERATION	ACTIVE	
				H	L
1	REC	O	Rec, dubbing : L		REC DUBBING
2	DUB	O	Dubbing : H	○	
3	H/SP	O	Hi-speed dubbing : L	NOR SPEED	HI SPEED
4	A play	O	A deck play : H	○	

PIN No.	PIN NAME	I/O	OPERATION	ACTIVE	
				H	L
5	CLK	I/O	Remote control operation port		
6	Data	I/O	Remote control operation port		
7	CE	I/O	Remote control operation port		
8	Power off	I	Power on : H, Power off : L	POWER ON	POWER OFF
9-11	T.SENS FF/REW play	I	A deck operation input port		A DECK OPERATION
12-16	F, REC/R REC T.SENS FF/REW. PLAY	I	B deck operation input port		B DECK OPERATION
17-18	TSP, TSR (OPTION)	I	Timer sw play : B deck play Timer sw rec : B deck REC	PLAY REC	
19	Rec mute	O	Rec-mute signal output	REC MUTE ON	REC MUTE OFF
20	Line mute	O	Line-mute signal output	LINE MUTE ON	LINE MUTE OFF
21	Repeat	O	1 music repeat indicator operation output		
22	Rec mute	O	Rec mute indicator operation output		
23-24	NOR/SPEED (option) HI/SPEED (option)	O O	Nor/speed indicator operation output Hi/speed indicator operation output		LED OPTION
25	P1Ao	O	A deck playback plunger operation port	PLAY REC	
26	P2Ao	O	A deck FF/REW plunger operation port	FF/REW	
27	P1Bo	O	B deck playback plunger operation port	PLAY REC	
28	P2Bo	O	B deck FF/REW plunger operation port	FF/REW	
29	$\overline{\text{INH}}$	I/O	Lcd control port		
30-31	Test, Vss		GND		
32-33	OSC1, OSC2		4MHz OSC port		
34	$\overline{\text{RES}}$		Reset		
35-37	CE, CLK, Data		Lcd control		
38-45	REW, FF, R play, F play (B deck) REW, FF, R play F play (A deck)	O	B deck operation display : output port (option) A deck operation display : output port (option)		
46-54, 56	KEY MATRIX	I	KEY MATRIX INPUT		
55	AMPS IN	I	AMPS BLANK SIGNAL INPUT	H	
57	QUICK REVERSE B	I	B DECK LEADER SIGNAL INPUT		
58	QUICK REVERSE A	I	A DECK LEADER SIGNAL INPUT		
59	AUTO STOP B	I	B DECK AUTOSTOP SIGNAL INPUT		

PIN No.	PIN NAME	I/O	OPERATION	ACTIVE	
				H	L
60	AUTO STOP A	I	A DECK AUTOSTOP SIGNAL INPUT		
61	MAO	O	A DECK MOTOR OPERATION SIGNAL OUTPUT	MOTOR OPERATION	
62	MBO	O	B DECK MOTOR OPERATION SIGNAL OUTPUT	MOTOR OPERATION	
63	AMPS OUT	O	AMPS OPERATION SIGNAL OUTPUT		
64	VDD		VDD		

3. CD SECTION

1) KS5990/KS59910 (Digital Signal Processor) : IC401

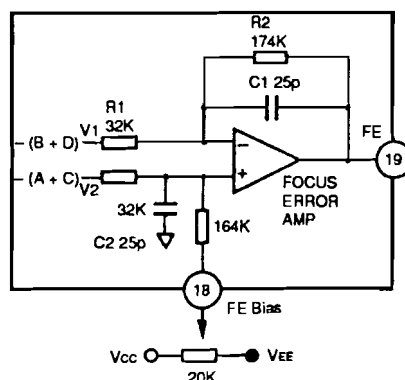
* I/O : INPUT/OUTPUT

Pin No.	Symbol	I/O	Description
1	SMEF	O	Pin 1 output is switched constant when output filter of the spindle motor is energized.
2	SMON	O	ON/OFF control for spindle motor.
3	SMPD	O	Spindle motor drive. Provides rough control during CLV-S mode and phase control during CLV-P mode.
4	SMSD	O	Spindle motor drive. Controls speed during CLV-P mode.
5	EFMZ	I	EFM signal from RF amplifier.
6	EFMO	O	Controls slice level of the EFM signal.
7	LOCK	O	The output of pin 7 reflects the status of the GFS signal which is sampled at PBFR/16. When the GFS signals is "H", but, when the signal has remained "L" for at least 8 samples, the output of pin 7 is "L".
8	VCOO	O	VCO output. The frequency is $f = 8.6436\text{MHz}$, when locked by the DBFR signal.
9	VCOI	I	VCO input.
10	TEST	I	(0V).
11	PHAS	O	The output of Pin11 provides phase comparison of EFM signal and VCO/2.
12	Vss	—	GND (0V).
13	MCK	I	Pin 13 provides serial transmission clock from the CPU. Data is latched on the leading edge of the clock.
14	MLT	I	Pin 14 provides latch input from the CPU. 8-bit shift register data (serial data received from the CPU) is latched in each of the registers.
15	MDAT	I	Serial data from the CPU.
16	XRST	I	System reset ("L").
17	TRCK	I	Tracking pulse input.
18	ISTAT	O	Output reflecting internal condition as designated by address.
19	MUTE	I	Muting input. MUTE is "L" when ATTM of internal register A is "L" (normal condition). MUTE is "H" when muting condition is set.
20	SQOK	O	Output the results CRC check of subcode Q.
21	SBCK	I	Clock input for subcode serial output.
22	SDAT	O	Serial output of subcode.
23	SQDT	O	Output of subcode Q.
24	S0S1	O	Output of subcode sync S0 + S1.
25	SQCK	I/O	Clock for reading subcode Q.
26	SQEN	I	Input for selecting SQCK (L; SQCK is output, H; SQCK is input)
27	SRAM	I	SRAM is "H" in Normal, SRAM is "L" when system is testing.
28	LKFS	O	Display output for frame sync lock status.
29	DB8	I/O	Data pin for external RAM. DATA8 (MSB) in test mode. Hi-Z in normal
30	DB7	I/O	Data pin for external RAM. DATA7 in test mode. Hi-Z in normal

Pin No.	Symbol	I/O	Description
31	DB6	I/O	Data pin for external RAM. DATA6 in test mode. Hi-Z in normal
32	DB5	I/O	Data pin for external RAM. DATA5 in test mode. Hi-Z in normal
33	V _{DD}	—	Power supply (+ 5V).
34	DB4	I/O	Data pin for external RAM. DATA4 in test mode. Hi-Z in normal
35	DB3	I/O	Data pin for external RAM. DATA3 in test mode. Hi-Z in normal
36	DB2	I/O	Data pin for external RAM. DATA2 in test mode. Hi-Z in normal
37	DB1	I/O	Data pin for external RAM. DATA1 (LSB) in test mode. Hi-Z in normal
38	AD01	O	(LSB)
39	AD02	O	In normal mode (TEST = 'L', SRAM = 'H'), these pins are High impedance (Hi-Z) In test mode (TEST = 'H', SRAM = 'L'), these pins are Output address of external RAM
40	AD03	O	
41	AD04	O	
42	AD05	O	
43	AD06	O	
44	AD07	O	
45	AD08	C	
46	AD09	C	
47	AD10	C	
48	AD11	C	(MSB)
49	$\overline{\text{WE}}$	I/O	In normal mode, this is WE output. In test mode, write enable input.
50	$\overline{\text{CE}}$	I/O	In normal mode, this is CE output. In test mode, chip enable input.
51	4MCK	O	Divider output for crystal. $f = 4.2336\text{MHz}$
52	V _{SS}	—	GND (0V)
53	XIN	I	Input to crystal oscillator circuit. Depending on the mode the frequency is either $f = 8.4672$ or 16.9344MHz .
54	XOUT	O	Output from crystal oscillator circuit. Depending on the mode the frequency is either $f = 8.4672$ or 16.9344MHz .
55	SEL1	I	Mode selection input 1.
56	SEL2	I	Mode selection input 2.
57	SEL3	I	Mode selection input 3.
58	SEL4	I	Mode selection input 4. Code switch input for audio data output. 2's complement output when "L", offset binary output when "H".
59	SEL5	I	Mode selection input 5. Code switch input for audio data output. Serial output when "L", parallel output when "H".
60	APTR	O	Output for aperture compensation. "H" when R-ch.
61	APTL	O	Output for aperture compensation. "H" when L-ch.
62	C1F1	O	Monitor output reporting status of error correction for C1 decoder. When SEL5 = 'L', DA01 (LSB of parallel audio data) is output when SEL5 = 'H'.
63	C1F2	O	Monitor output reporting status of error correction for C1 decoder when SEL5 = 'L', DA02 is output when SEL5 = 'H'.
64	C2F1	O	Monitor output reporting status of error correction for C2 decoder when SEL5 = 'L', DA03 is output when SEL5 = 'H'.
65	C2F2	O	Monitor output reporting status of error correction for C2 decoder when SEL5 = 'L', DA04 is output when SEL5 = 'H'.
66	C2FL	O	When SEL5 = 'L', output of status condition. C2FL is set 'H' when the C2 sequence. Presently being corrected becomes impossible to correct. DA05 is output when SEL5 = 'H'.
67	C2PO	O	Display output of the C2 pointer when SEL5 = 'L', DA06 is output when SEL5 = 'H'.

Pin No.	Symbol	I/O	Description
68	XTFR	O	When SEL5 = 'L', output of read frame dock which is 7.35KHz of the crystal system. DA07 is output when SEL5 = 'H'.
69	PBFR	O	When SEL5 = 'L', output of write frame clock which is 7.35KHz when locked by the crystal system. DA08 is output when SEL5 = 'H'.
70	PBCK	O	When SEL5 = 'L', output of VCO/2 (f = 4.3218MHz when locked by the EFM signal). DA09 is output when SEL5 = 'H'.
71	FSDW	O	When SEL5 = 'L', output for unprotected frame sync patterns. DA10 is output when SEL5 = 'H'.
72	ULKFS	O	Output for display of status of frame sync protection when SEL5 = 'L', DA11 is output when SEL5 = 'H'.
73	V _{DD}	—	Power supply (+ 5V).
74	JIT	O	When SEL5 = 'L', output for display of either RAM overflow or underflow for +4 frame jitter absorption. DA12 is output when SEL5 = 'H'.
75	ZWDCK	O	When SEL5 = 'L', output for strobe signal (352.8KHz when DF is ON, 176.4KHz when DF is OFF). DA13 is output when SEL5 = 'H'.
76	BLCK	O	When SEL5 = 'L', inverse output of BLCK. DA14 is output when SEL5 = 'H'.
77	BLCK	O	When SEL5 = 'L', bit clock output (4.2336MHz when DF is ON, 2.1168MHz when DF is OFF) DA15 is output when SEL5 = 'H'.
78	DATA	O	Serial data output of audio signal when SEL5 = 'L'. DA16 is output when SEL5 = 'H'.
79	WDCK	O	Strobe signal output. Output is 176.4KHz when DF is on. Output is 88.2KHz when DF is off.
80	CHCK	O	Strobe signal output. Output is 88.2KHz when DF is on. Output is 44.1KHz when DF is off..

2) FOCUS ERROR AMPLIFIER (KA9201) : IC301



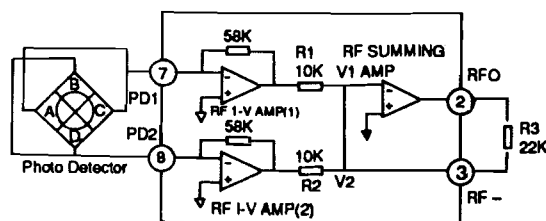
The Focus Error AMP is the difference between RF I-V AMP (1) output (A + C) and RF I-V AMP(2) output (B + D). This two $[-(A + C), -(B + D)]$ signals are each applied to the (-) and (+) input of Focus Error AMP. As the result of differential voltage, Focus Error signal is appeared at FE pin (pin 19). This FE output voltage (low frequency) become $[(A + C) - (B + D)]$, as follow.

$$V_{FE} = R2/R1 \cdot (V2 - V1)$$

$$= 5.4 (V2 - V1)$$

The focus error voltage is directed to the focus servo circuit, to maintain optimum focusing at all times.

3) RF AMPLIFIER (KA9201) : IC301



RF I-V AMP(1) and RF I-V AMP(2) are converted into voltage from current signal of PD1 (A + C) and PD2 (B + D) through the 58Kohm internal resistor. Furthermore, it is added in RF summing amplifier, this signal (A + B + C + D) is output at RFO (pin 2). The RF output voltage (low frequency) is as follow.

$$\begin{aligned} V_{AF} &= -R3^* (i_{PD1} + i_{PD2}) \\ &= -R3^* (V1/R1 + V2/R2) \\ &= -22K^* (V1/10K + V2/10K) \\ &= -2.2^* (V1 + V2) \end{aligned}$$

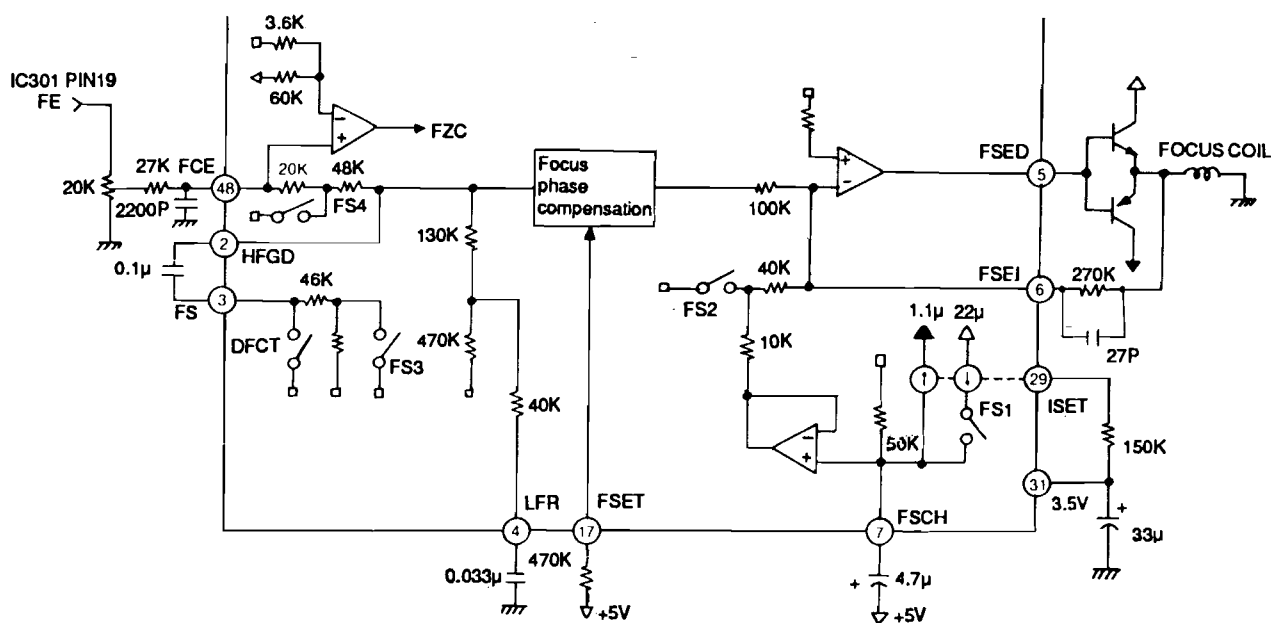
4) FOCUS SERVO SYSTEM (KA830) : IC201

The below is a block diagram of the focus servo system.

When FS3 is switched on, the high frequency gain can be reduced by forming a low frequency time constant through a capacitor connected across pins 2 and 3 and the internal resistor.

The capacitor across the pin 4 and GND has a time constant to raise the low frequency usually playback condition.

The peak frequency of the focus phase compensation is inversely proportional to the resistor connected to pin 17 (about 1.2KHz when the resistor is 470 k Ω)



The focus search peak becomes about ± 1.1 Vp-p with above constant. The peak is inversely proportional to the resistor connected across the pins 29 and 31. However, when this resistor is varied, the peaks of track jump and sled kick also vary. The FZC comparator invert input is set to 5.7% of the difference between the reference voltage V_{cc} and V_c (Pin 1) : $5.7\% \times (V_{cc} - V_c)$.

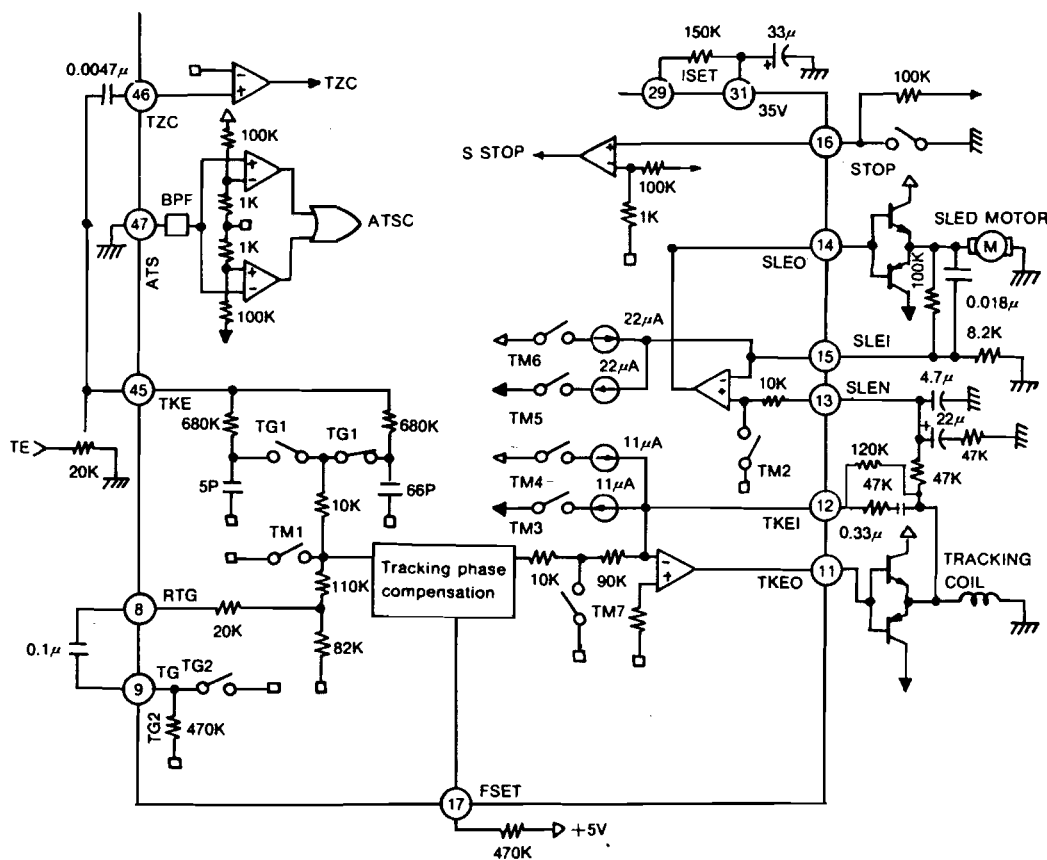
5) TRACKING SLED SERVO SYSTEM (KA830) : IC201

The below is a block diagram of the tracking sled servo system.

The capacitor across pins 8 and 9 has a time constant to lower the high frequency when TG2 is switched off. The tracking phase compensation peak frequency is inversely proportional to the resistor connected to pin 17 (about 1.2KHz when the resistor is 470K Ω).

For a tracking jump in the FWD or REV direction, TM3 or TM4 are set to ON. At this time, the peak voltage fed to the tracking coil is determined by the TM3 and TM4 current values and the feedback resistor from pin 12. That is:

Track jump peak voltage = TM3 (TM4) current value x feedback resistor value



The FWD or REV sled kick is done by setting TM5 or TM6 ON. At this time, the peak voltage added to the sled motor is determined by the TM5 or TM6 current value and the feedback resistor from pin 15.

Sled jump peak voltage = TM5 (TM6) current value x feedback resistor value

Each SW current value is determined by the resistor connected to pins 29 and 31.

When the resistor is at about $150\text{K}\Omega$,

TM3 or TM4 is $\pm 11 \mu\text{A}$ and TM5 or TM6 is $\pm 22 \mu\text{A}$.

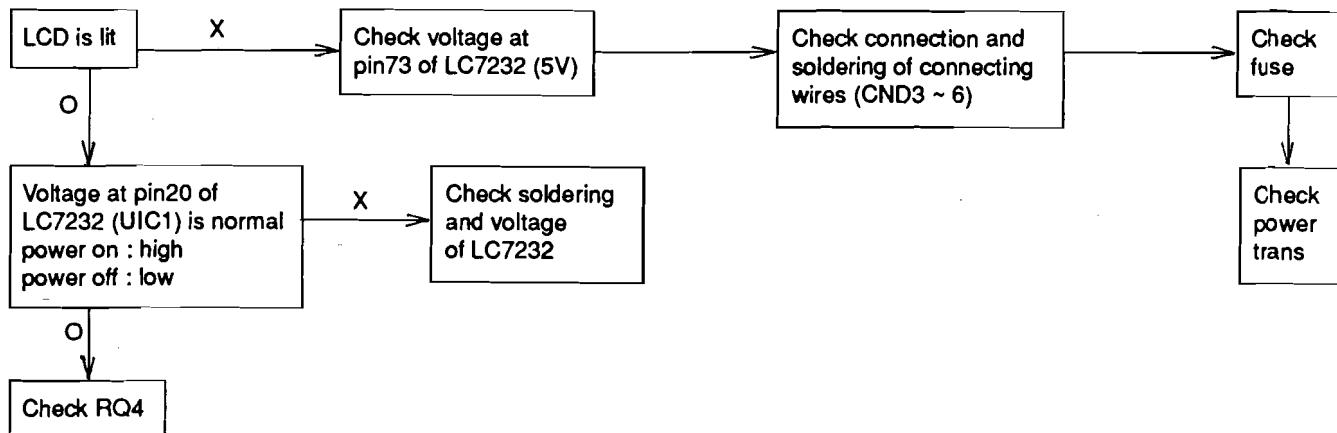
This current value is almost inversely proportional to the resistor, variable within a range of about 5 to 40 μA for TM3.

STOP is the ON/OFF detection signal for the limit SW or the sled motor's innermost circumference.

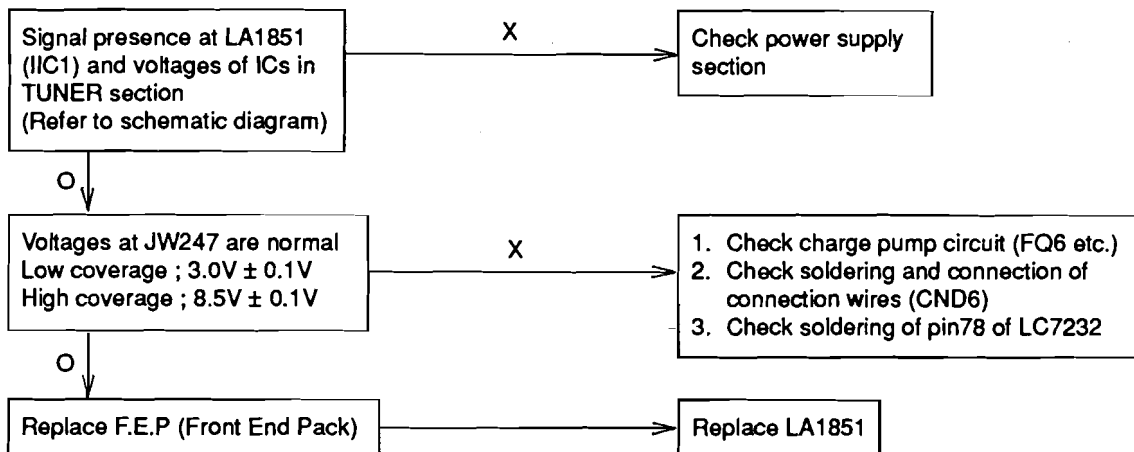
■ TROUBLE SHOOTING

1. MAIN

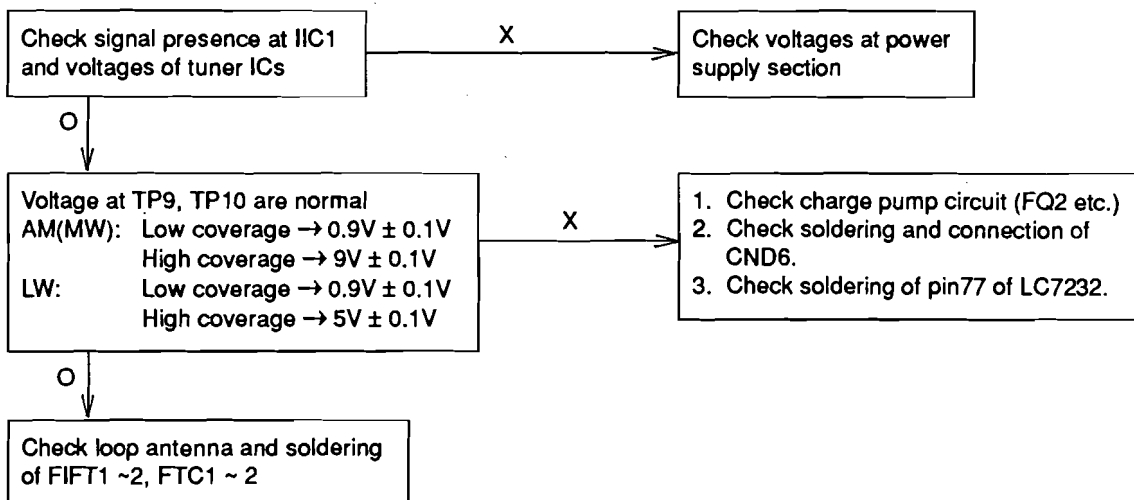
1) POWER PROBLEM



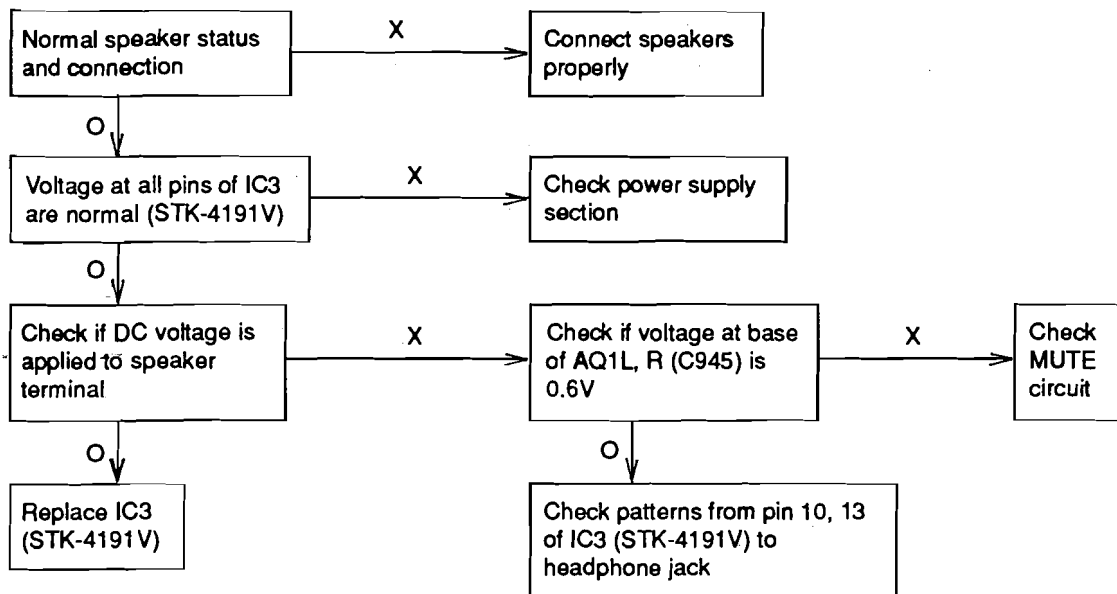
2) NO AUDIO ON FM MODE



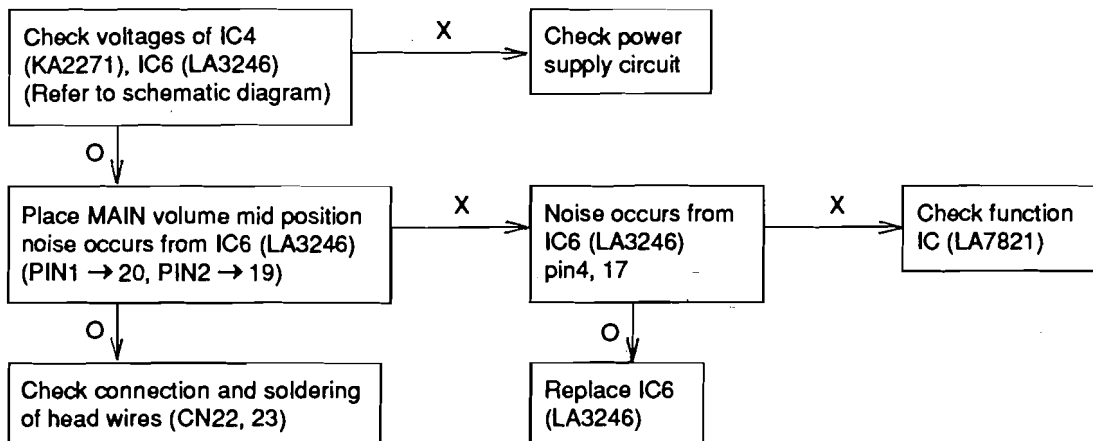
3) NO AUDIO ON AM



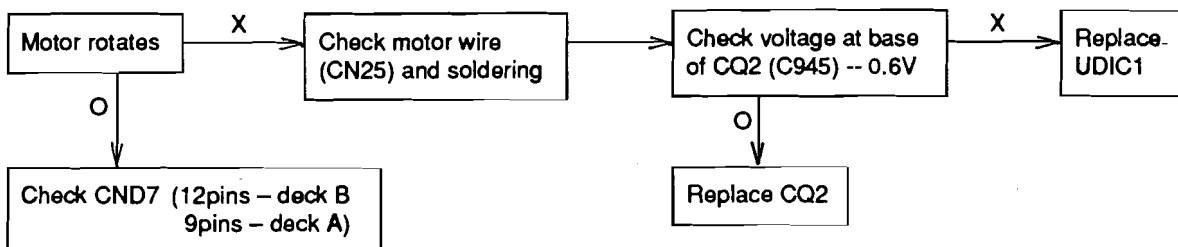
4) AUDIO OUTPUT PROBLEM



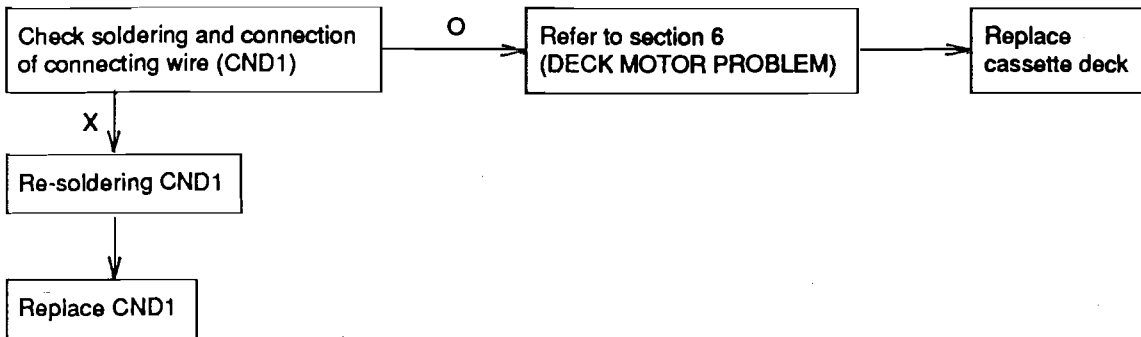
5) TAPE NOT PLAYING



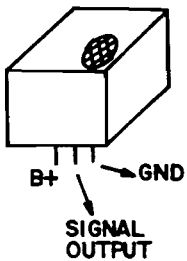
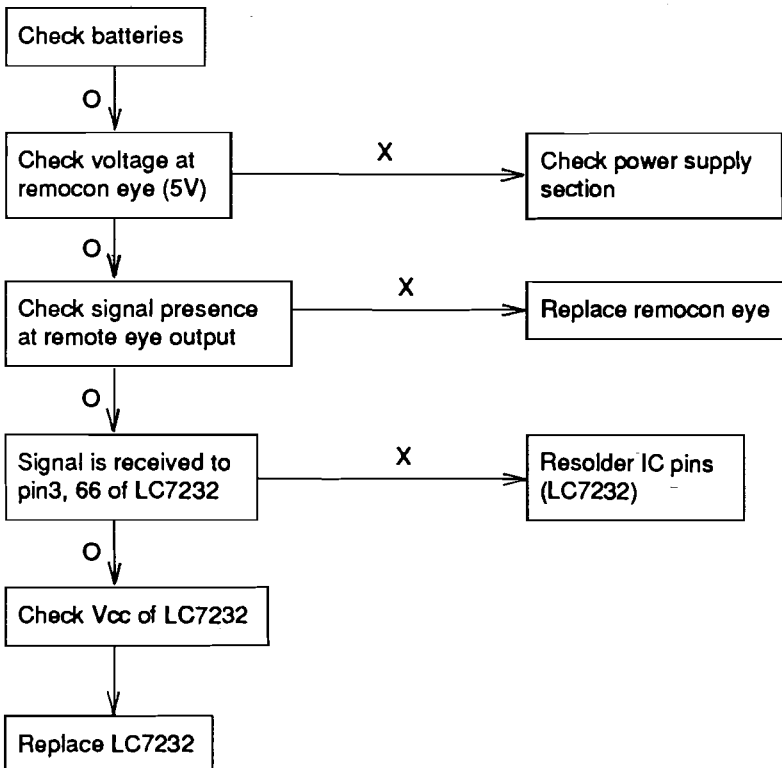
6) DECK MOTOR PROBLEM



7) CASSETTE DECK PROBLEM



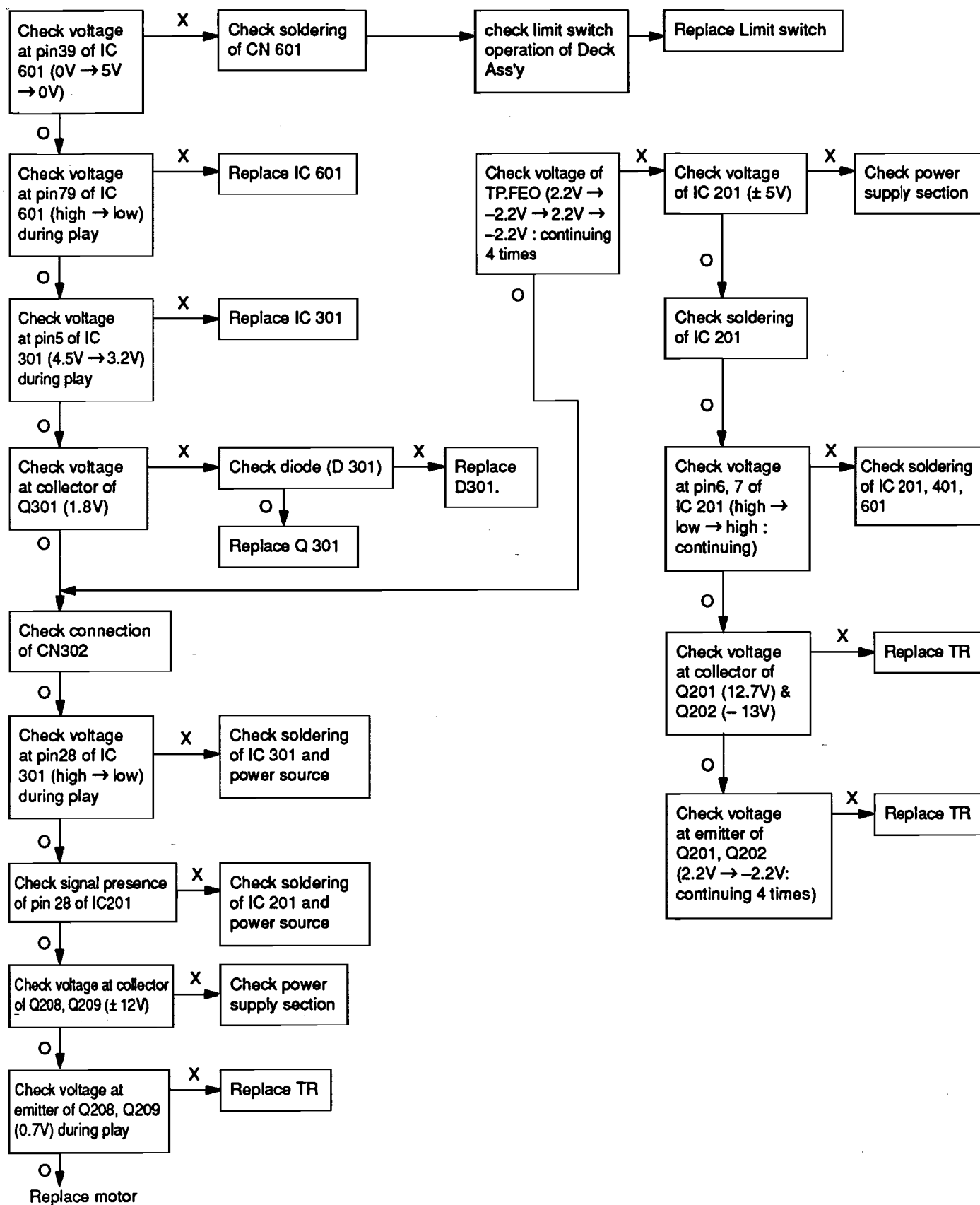
8) REMOTE CONTROL PROBLEM



2. CD

- Be sure not to use a warped or dirt-build up disc in troubleshooting.

1) DISC DOESN'T ROTATE



2) LEAD IN NOT WORKING

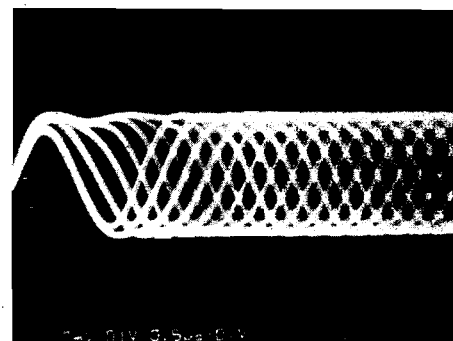
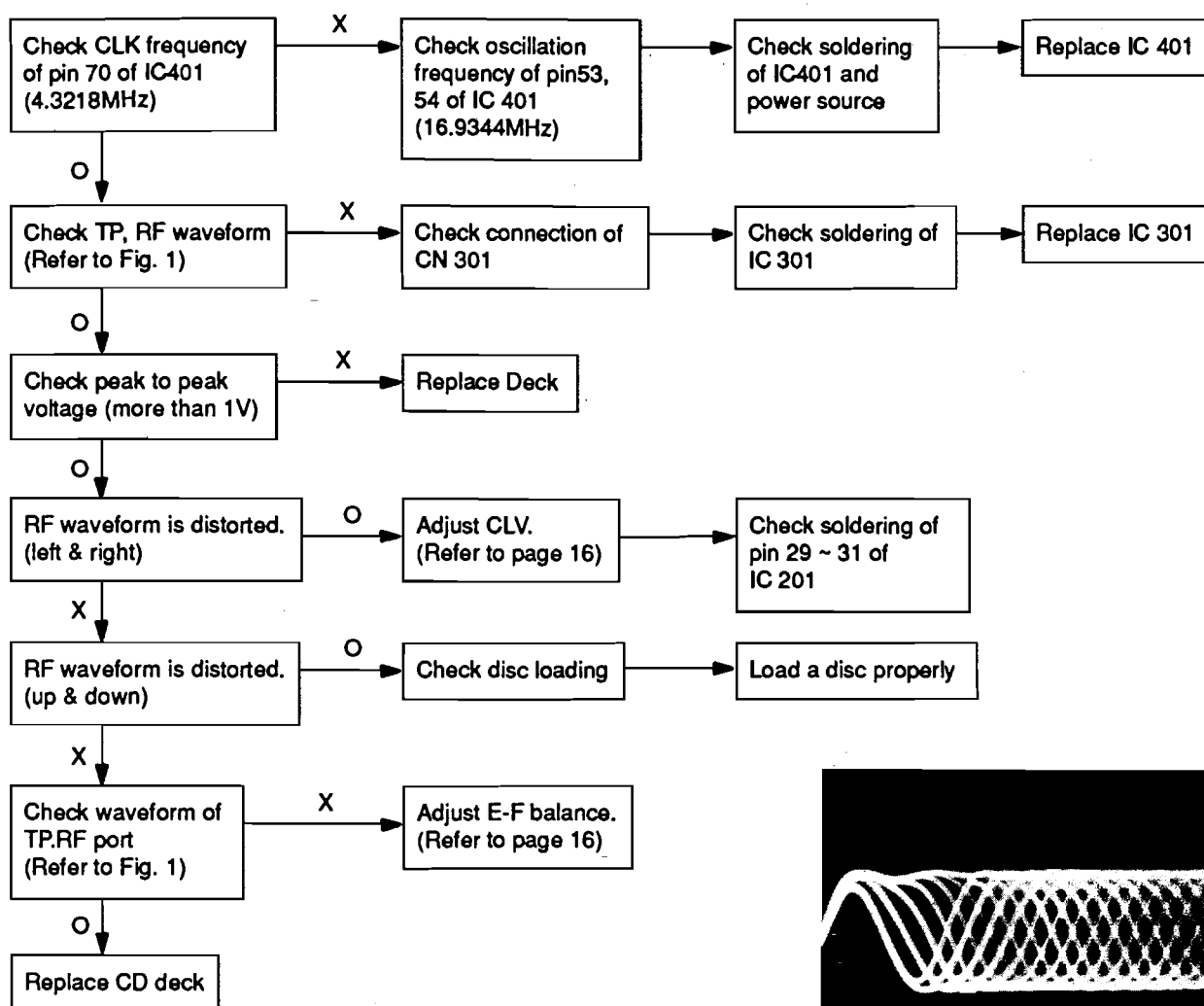


FIG. 1

3) DISPLAY NOT WORKING

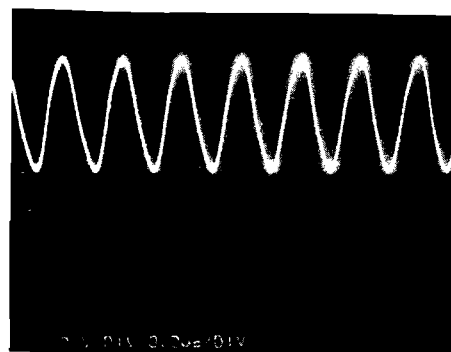
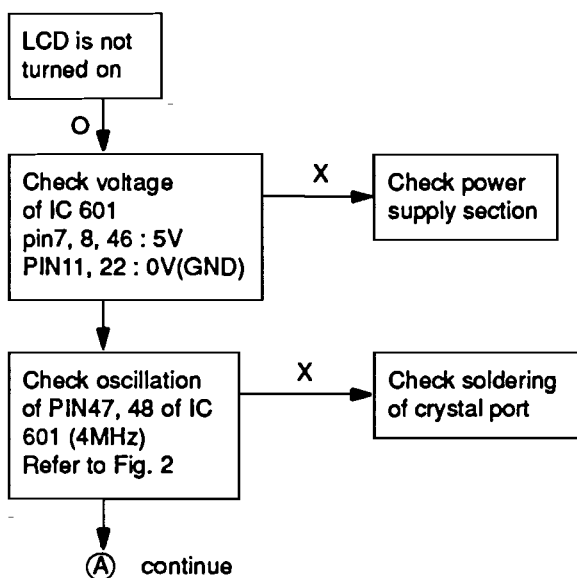


FIG. 2

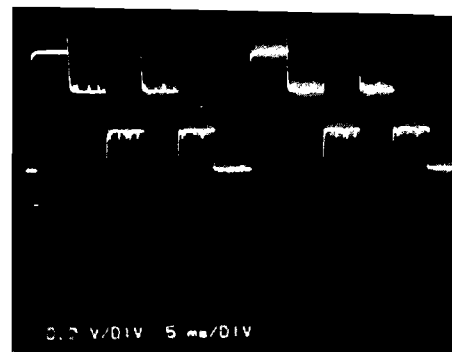
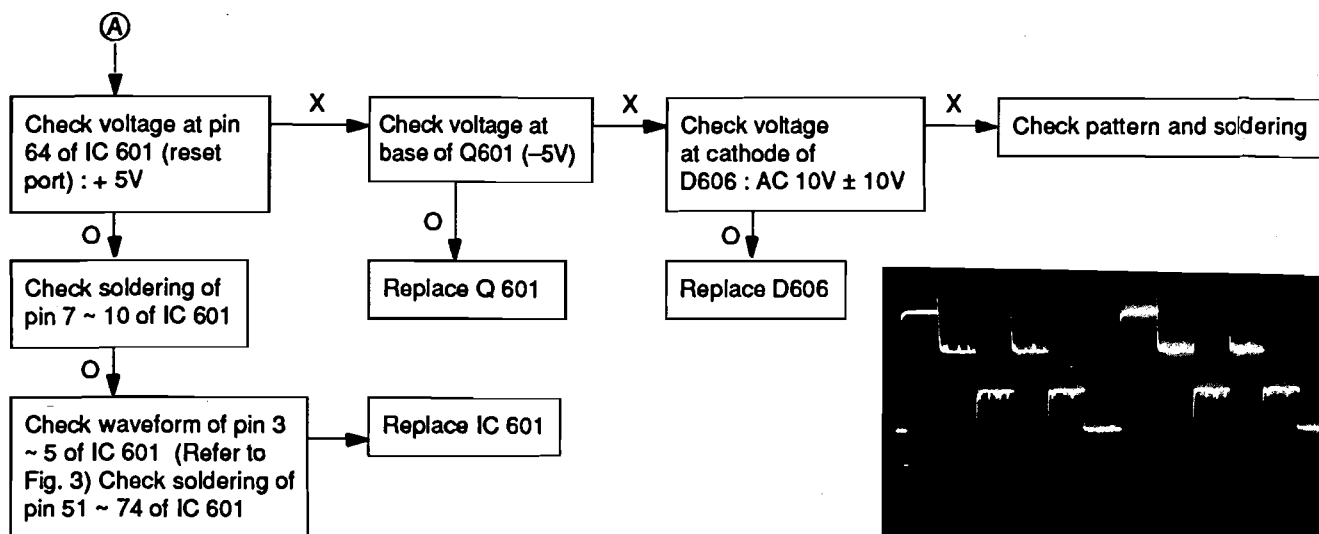


FIG. 3

4) SOUND NO OUTPUT

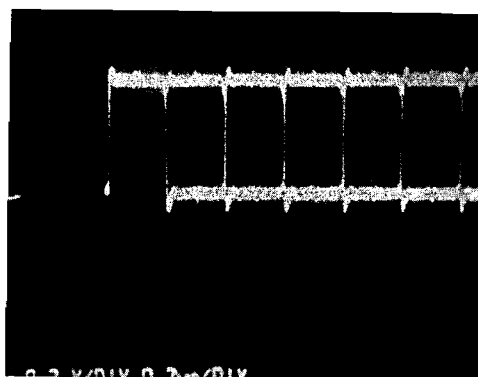
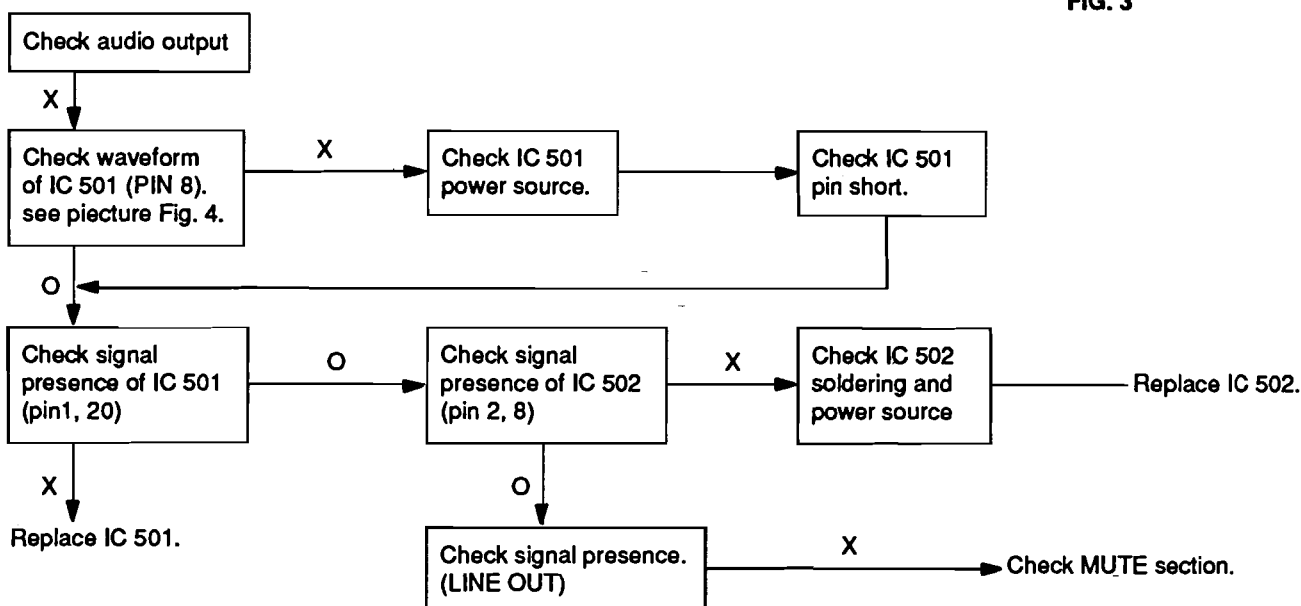


FIG. 4

■ ADJUSTMENT

Adjustments to this unit have already been made during production procedure.

Therefore, no adjustment is needed. If parts related to the adjustment are replaced, or readjustment is required, proceed with adjustments in the order given below.

1. TUNER

1) MEASURING INSTRUMENTS REQUIRED

- (1) AM standard signal generator (S.S.G)
: 400Hz, 30% MOD.
- (2) FM standard signal generator
: output impedance 75Ω , (or 300Ω dummy),
1KHz, 40KHz DEV.
- (3) Oscilloscope (4) VTVM
- (5) Loop antenna

(6) Dummy load (8Ω)

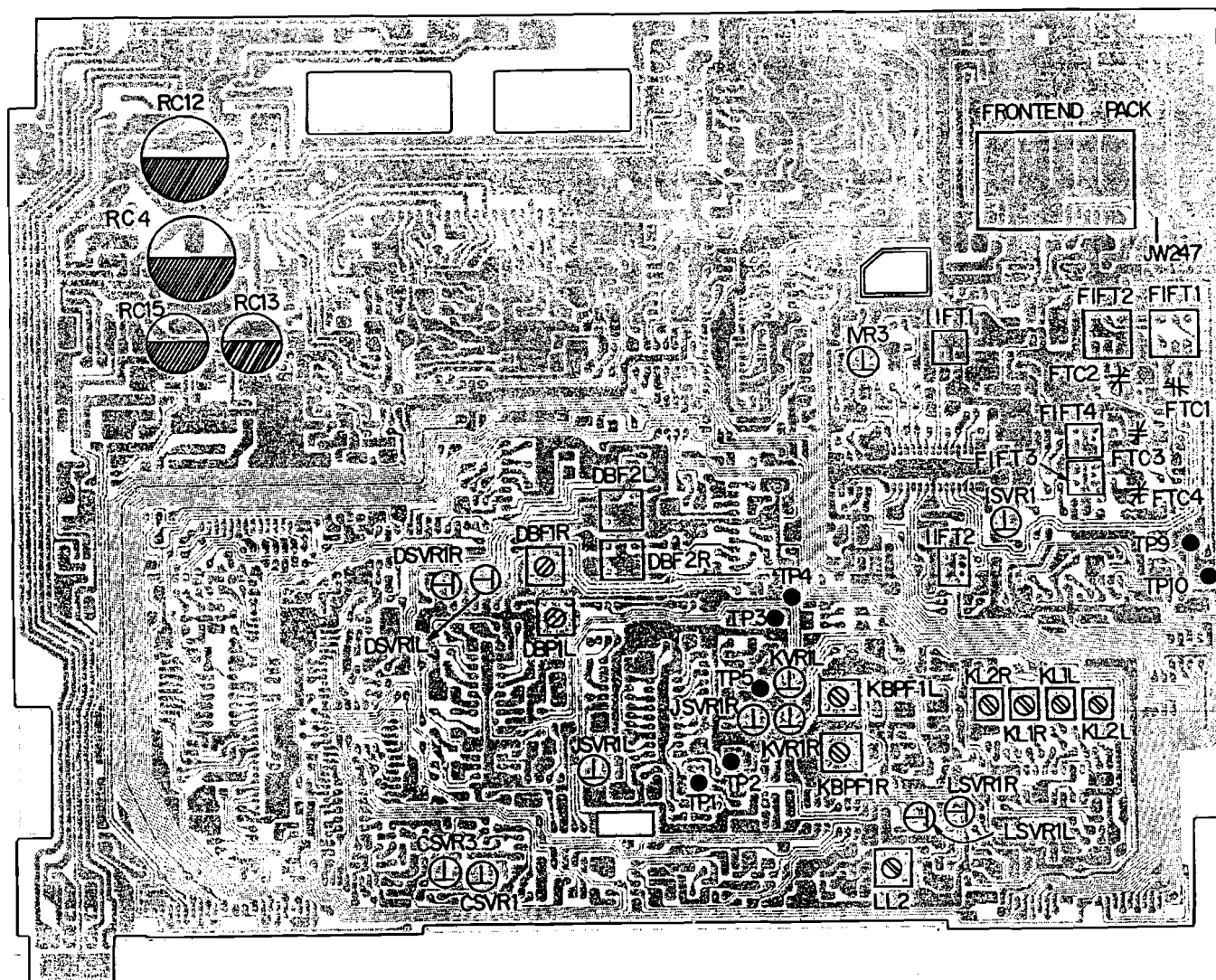
(7) DC voltmeter

2) IMPORTANTS

- (1) Check the power source first.
- (2) Check function and band switch.
- (3) The equalizer, volume and valance control should be turned to the mid position.

3) LOCATION OF ADJUSTMENT POINTS (PARTS SIDE)

MAIN PCB



4) ADJUSTMENT PROCEDURE

(1) FM ADJUSTMENT

STEP	ITEM	CONNECTION	SSG FREQ.	FREQ. SETTING	ADJUSTMENT POINT	RESULT & REMARK
1	IF center & T.H.D	FIG. 1	98MHz	98MHz	IIFT1	Distortion (DT) minimum
2	FM coverage	Connect DC to JW247 and GND	—	87.5MHz	FM OSC	3V
3	Auto selection level	FIG. 2	98MHz	98MHz	ISVR1	0V
4	FM stereo seperation	FIG. 3	98MHz	98MHz	IVR3	If L-CH is input, R-CH should be minimum and visa-versa.

* High coverage and tracking adjustment are not required.

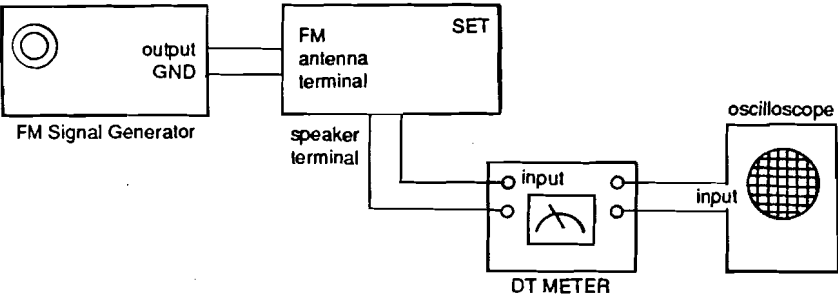


FIG. 1) IF CENTER AND T.H.D

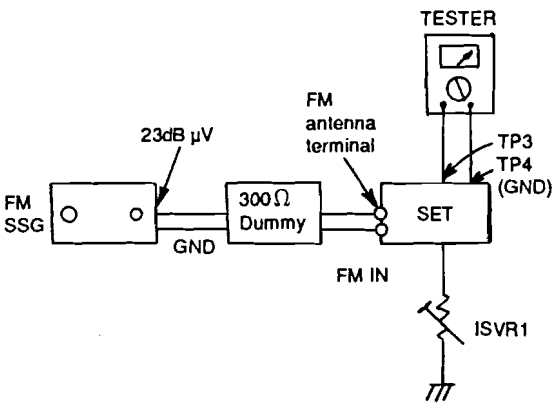


FIG. 2) AM AUTO SEARCH LEVEL

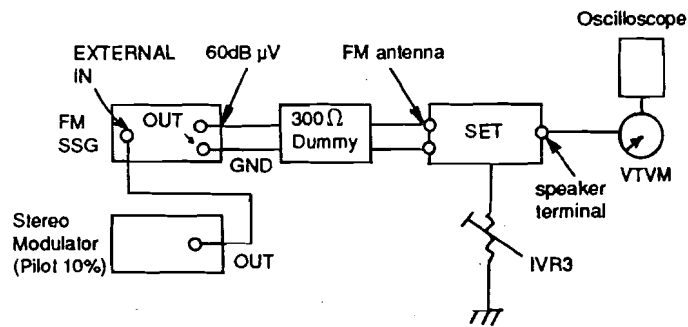


FIG. 3) FM STEREO SEPERATION

* FIG. 2, 3 : 300 dummy-optional

(2) AM ADJUSTMENT
① 2 BAND (FM/AM)

STEP	ITEM	CONNECTION	SSG FREQ.	FREQUENCY SETTING	ADJUSTMENT FREQUENCY	RESULT & REMARK
1	Intermediate frequency (IF) adjustment	FIG. 4	450KHz	522KHz	IIFT2	Maximum output
2	AM frequency coverage adjustment	Connect DC voltmeter to TP9 and GND	—	522KHz	FIFT3	0.9V
3			—	1611KHz	FTC4	9V
4	Repeat step 2 and 3 several times.					
5	AM tracking adjustment	FIG. 4	594KHz	594KHz	FIFT1	Maximum output
6			1404KHz	1404KHz	FTC1	
7	Repeat step 5 and 6 several times.					

② 3 BAND (FM/MW/LW)

STEP	ITEM	CONNECTION	SSG FREQ.	FREQUENCY SETTING	ADJUSTMENT FREQUENCY	RESULT & REMARK
1	LW frequency coverage adjustment	FIG. 4	—	146KHz	FIFT4	0.9V
2			—	290KHz	FTC3	5V
3	Repeat step 1 and 2 several times.					
4	LW tracking adjustment	FIG. 4	160KHz	160KHz	FIFT2	Maximum output
5			270KHz	270KHz	FTC2	
6	Repeat step 4 and 5 several times.					

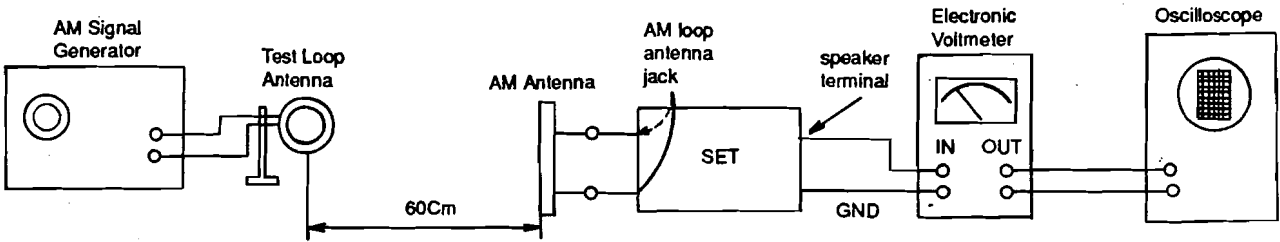


FIG. 4) AM LW TRACKING, AM IF

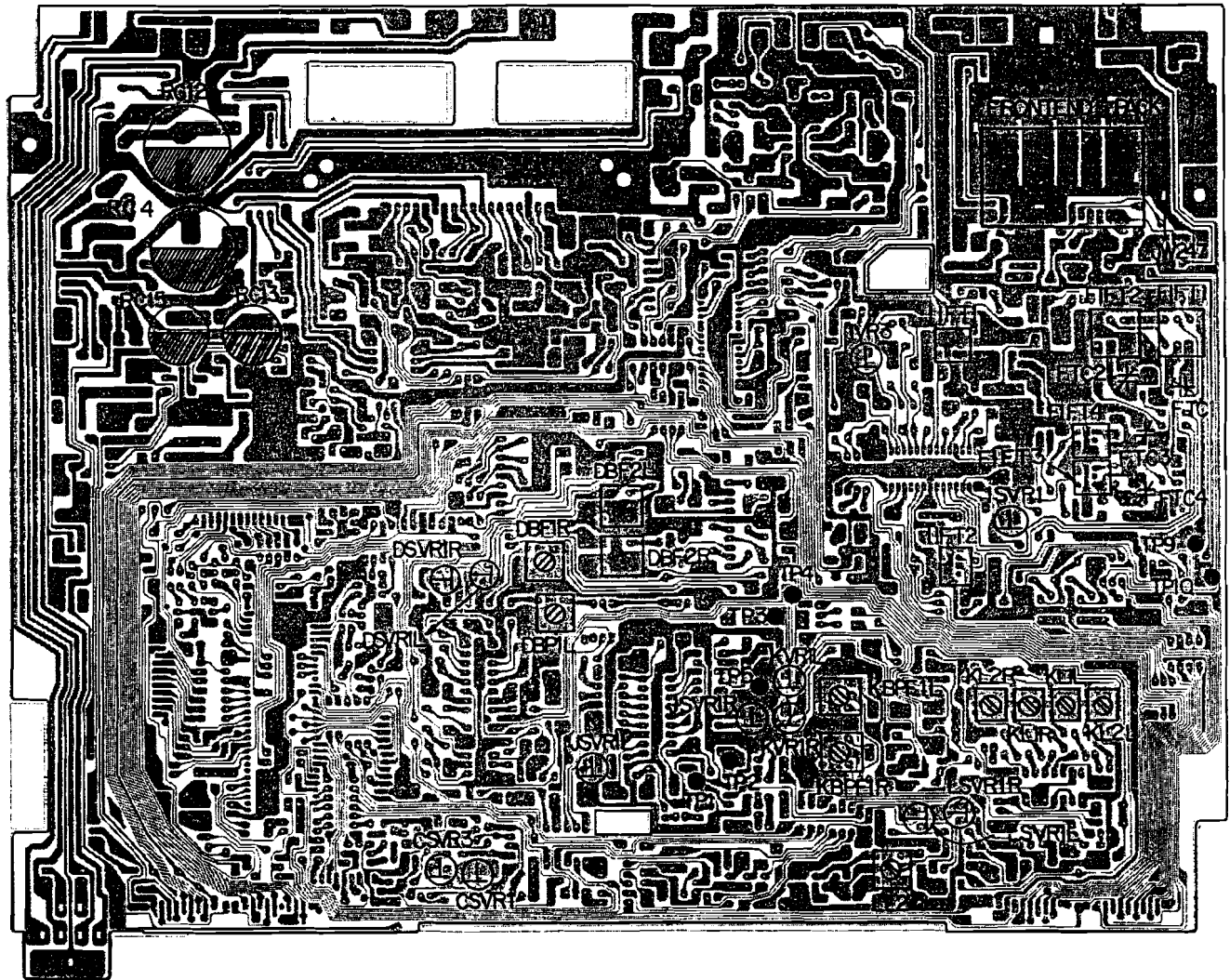
2. TAPE

1) MEASURING INSTRUMENTS REQUIRED

- (1) Oscilloscope
- (2) VTVM
- (3) TAPE
 - ① MTT-111 (or equivalent) : 3KHz signal is recorded → tape speed
 - ② MTT-5521 (or equivalent)
 - ③ MTT-114NA (or equivalent) : 12.5KHz signal is recorded.→ Azimuth
 - ④ MTT-150 (or equivalent) : 200mwb/m is recorded by DOLBY level.

2) LOCATION OF ADJUSTMENT POINTS (PARTS SIDE)

MAIN PCB



3) ADJUSTMENT PROCEDURE

(1) TAPE SPEED

STEP	ITEM	CONNECTION	PREPARATION	ADJUSTMENT POINT	RESULT & REMARK
1	Normal speed adjustment	FIG. 1	Insert MTT-111 to DECK B. Press PLAY button.	CSV3	3KHz
2	High speed adjustment	FIG. 1	Insert MTT-111 to DECK B. Connect CN24. Press PLAY button.	CSV1	6KHz Disconnect CN24.

(2) PLAY LEVEL

- Set DOLBY NR switch to off.
- ① DECK A

STEP	ITEM	CONNECTION	PREPARATION	ADJUSTMENT POINT	RESULT & REMARK
1	AZIMUTH	FIG. 2	Play MTT-114NA in the DECK A.	FIG. 3	Maximum output and same phase of L, R-CH. Fix the screw.

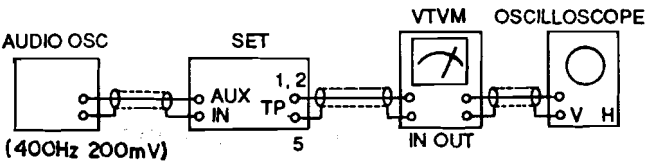
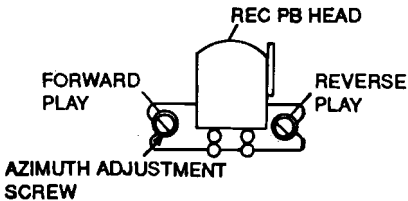
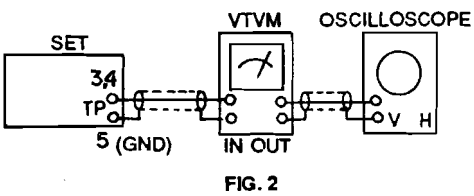
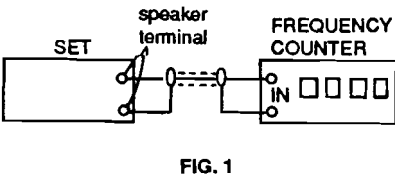
② DECK B

STEP	ITEM	CONNECTION	PREPARATION	ADJUSTMENT POINT	RESULT & REMARK
1	AZIMUTH	FIG. 2	Play MTT-114NA in the DECK B.	FIG. 3	Maximum output and same phase of L, R-CH. Fix the screw.
2	Playback output level	FIG. 2	Play MTT-150 in the DECK B	JSVR1L, R	245mV

(3) RECORD AND PLAYBACK ADJUSTMENT

- Set DOLBY NR switch to off.

STEP	ITEM	CONNECTION	PREPARATION	ADJUSTMENT POINT	RESULT & REMARK
1	Bias oscillation frequency	FIG. 4 (TP1 : L-CH, TP2 : R-CH, TP5 : GND)	Record MTT-5521 in the DECK B	LL2	105KHz
2	Bias current	FIG. 4 (TP1 : L-CH, TP2 : R-CH, TP5 : GND)	Record MTT-5521 in the DECK B	LSR2L, R	50mV
3	Record source level	FIG. 4 (TP3 : L-CH, TP4 : R-CH, TP5 : GND)	Record MTT-5521 in the DECK B	DSR2L, R	245mV
4	Signal current	FIG. 4 (TP1 : L-CH, TP2 : R-CH, TP5 : GND)	Connect CN20. Record MTT-5521 in the DECK B.	KVR1L, R	6.2mV Disconnect CN20.



3. CD

1) MEASURING INSTRUMENT

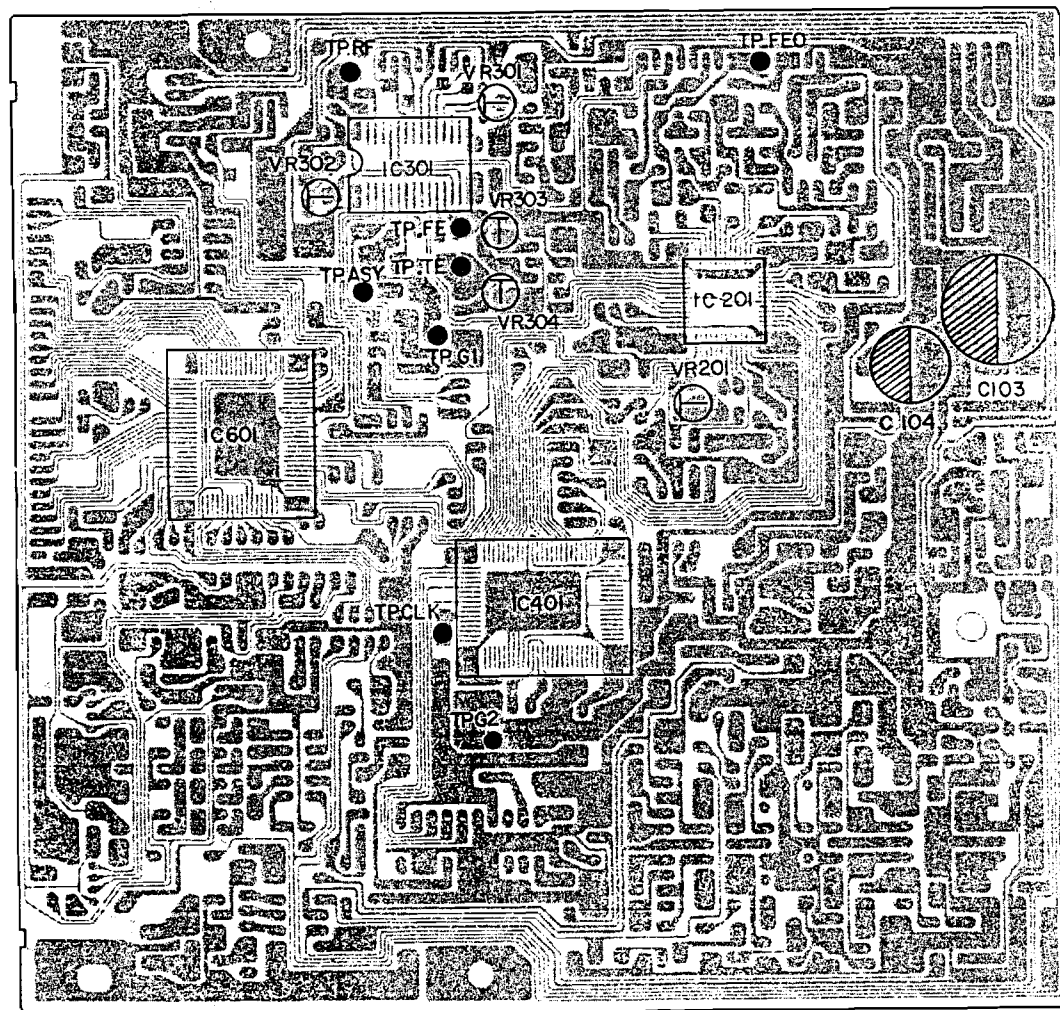
- 1) Oscilloscope (100MHz $\geq$ Frequency)
- 2) Probe (10 : 1)
- 3) Frequency counter

2) IMPORTANTS

- 1) Semi-Volume position can be a little different according to unit.
- 2) Be sure not to use a warped or dirt-build up disc in adjusting.
- 3) When adjusting Semi-Volume, use plastic screw driver.

3) LOCATION OF ADJUSTMENT POINTS (PARTS SIDE)

CD PCB



VR201 : CLV adjustment
 VR301 : E-F balance adjustment
 VR303 : Focus gain adjustment
 VR302 : Focus bias adjustment
 VR304 : Tracking gain adjustment

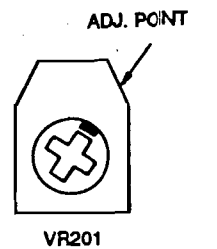
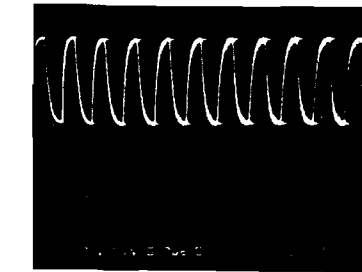
TP.FE : To oscilloscope signal port
 TP.TE : To oscilloscope signal port
 TP. CLK : To oscilloscope signal port
 TP.G1 : To oscilloscope GND port
 TP.G2 : To oscilloscope GND port

4) ADJUSTMENT PROCEDURE

(1) CLV ADJUSTMENT

- ① Turn power on and load a disc.
- ② Frequency counter connection
(+) terminal ; TP. CLK
(-) terminal ; TP. G2
- ③ Connect TP.ASY to TP. G1
- ④ Adjust VR201 so the frequency counter reads 4.38 ~ 4.40MHz. (Adjust in stop mode)
- ⑤ Disconnect TR. ASY from TP.G1

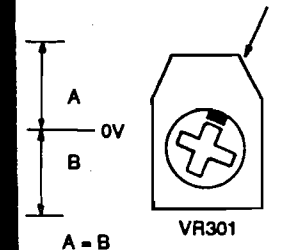
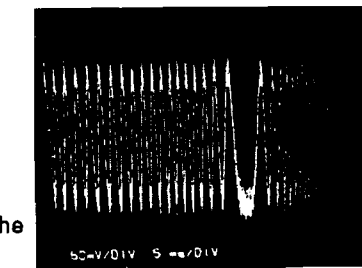
CLV



(2) E-F BALANCE ADJUSTMENT

- ① Turn power on and load a disc.
- ② Press play.
- ③ Oscilloscope setting and connection
VOLT/DIV ; 50mV ((+) terminal ; TP.TE
TIME/DIV ; 5mS ((-) terminal ; TP. G1
- ④ Adjust VR304 fully counter clockwise
- ⑤ Adjust VR301 so the waveform is as shown in the picture.
- ⑥ Set VR304 back to the place it was before adjustment.

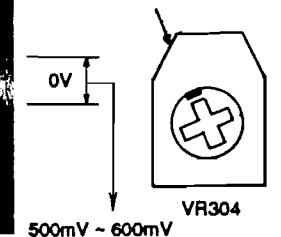
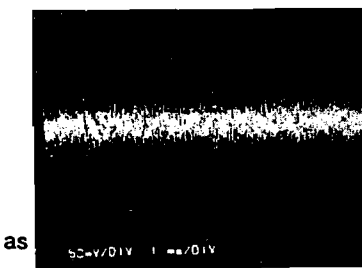
E-F BALANCE



(3) TRACKING GAIN ADJUSTMENT

- ① Turn power on and load a disc.
- ② Press play.
- ③ Oscilloscope setting and connection
VOLT/DIV ; 50mV ((+) terminal ; TP.TE
TIME/DIV ; 1mS ((-) terminal ; TP. G1
- ④ Adjust VR304 so the peak to peak waveform is as shown in the picture.

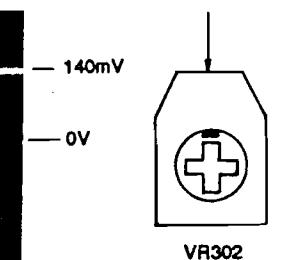
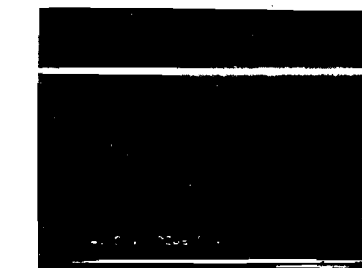
TRACKING GAIN



(4) FOCUS BIAS ADJUSTMENT

- ① Turn power on and load a disc.
- ② Oscilloscope setting and connection
VOLT/DIV ; 10mV ((+) terminal ; TP.FE
TIME/DIV ; 20 μ S ((-) terminal ; TP. G1
- ③ Adjust VR302 so the waveform is as shown in picture. (Adjust in stop mode)

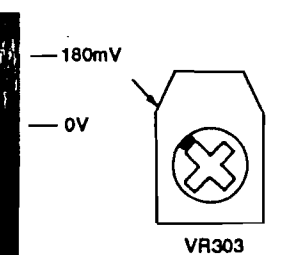
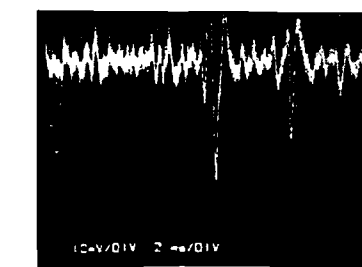
FOCUS BIAS



(5) FOCUS GAIN ADJUSTMENT

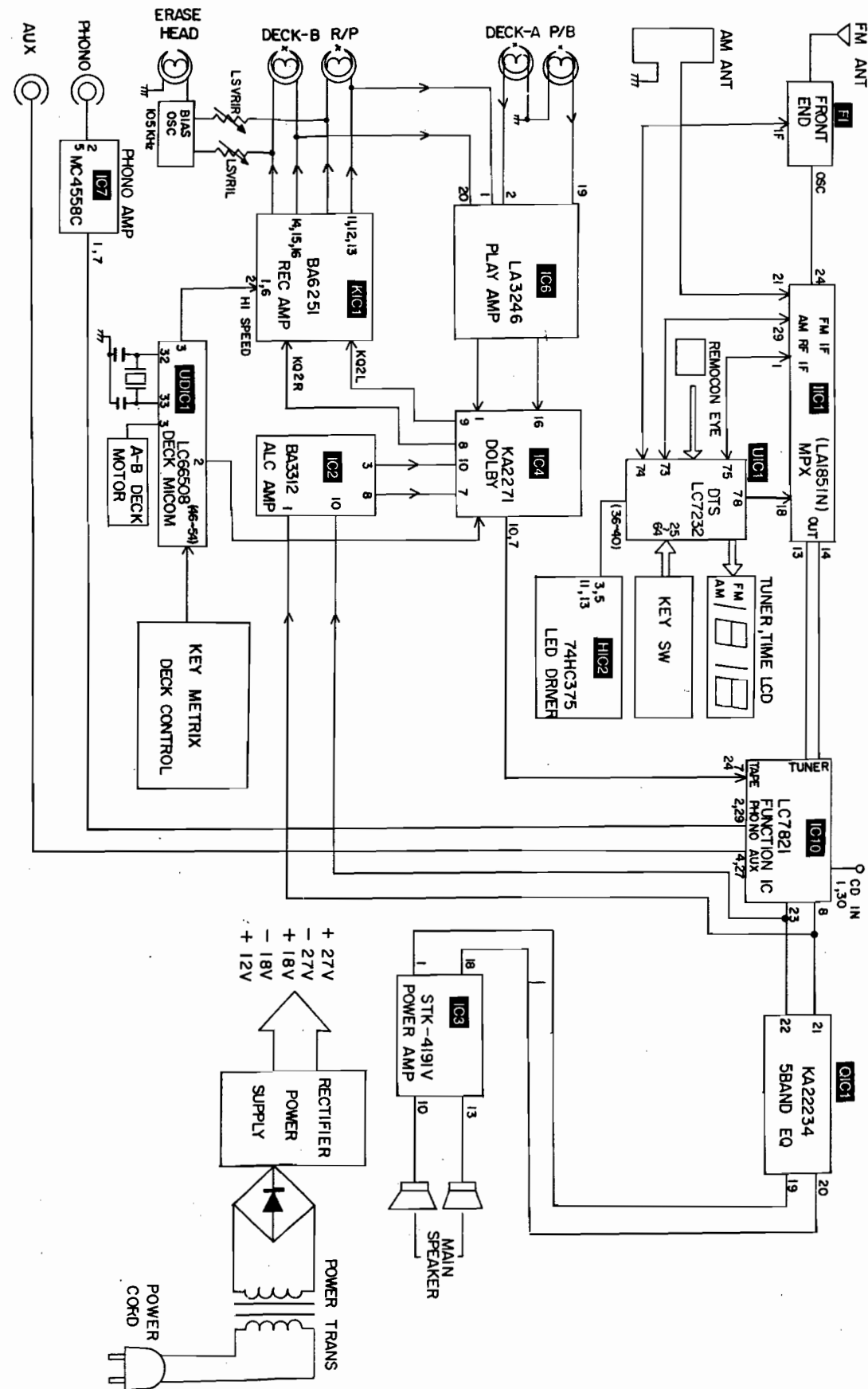
- ① Turn power on and load a disc.
- ② Press play.
- ③ Oscilloscope setting and connection
VOLT/DIV ; 10mV ((+) terminal ; TP.FE
TIME/DIV ; 2mS ((-) terminal ; TP. G1
- ④ Adjust VR303 so the peak to peak waveform is shown in the picture.

FOCUS GAIN

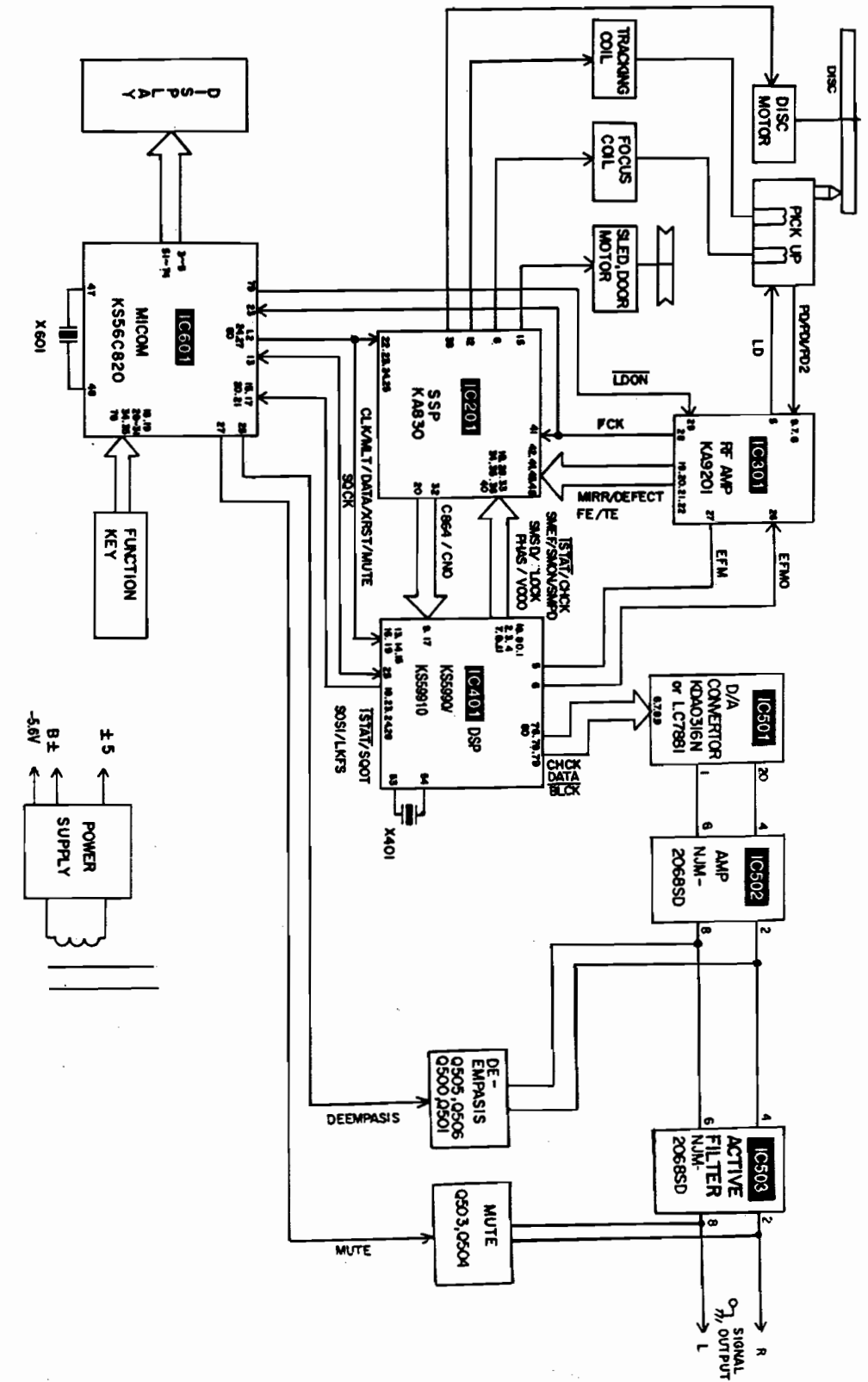


(Pictures taken in 10 : 1 probe)

1. MAIN SECTION



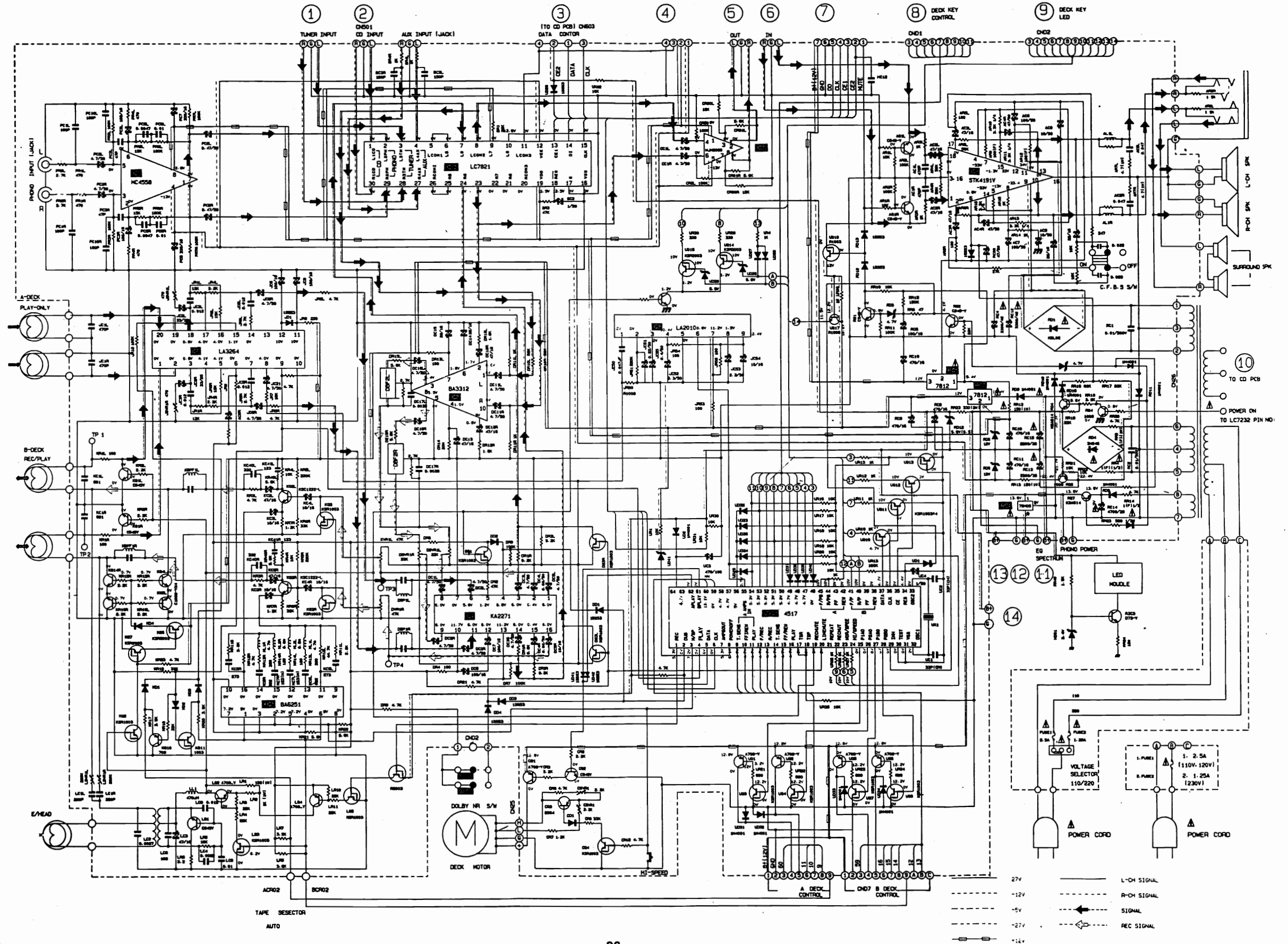
2. CD SECTION



SCHEMATIC DIAGRAM

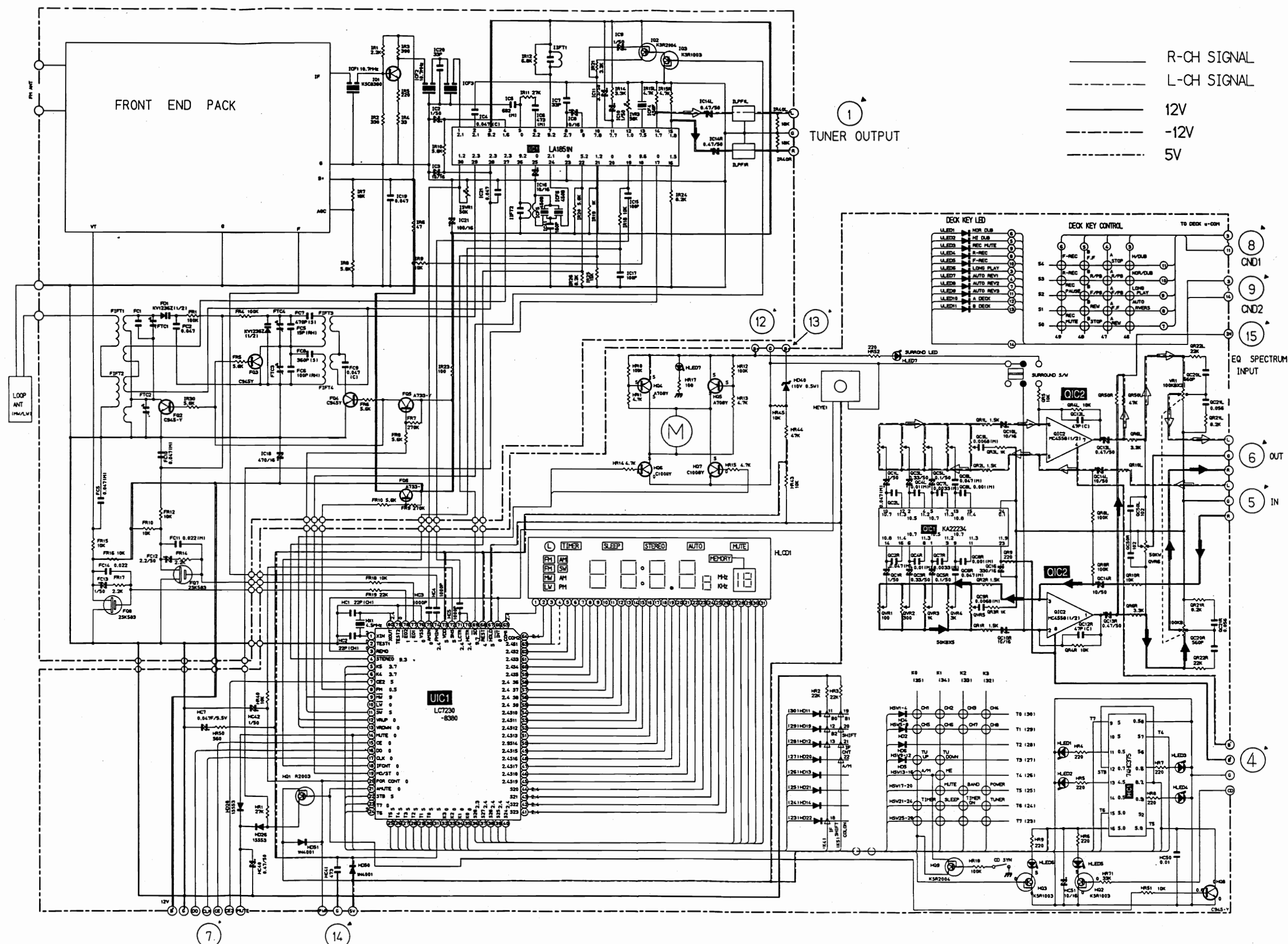
1. MAIN SECTION

1. The unit of all resistors is Ω unless otherwise stated. (K: K Ω , M: M Ω). All resistors are 1/4W or 1/8W unless otherwise stated.
2. The unit of all capacitors is μF unless otherwise stated. (P: PF).
3. The schematic diagram is subject to change upon improvement without prior notice.
4. Δ indicates parts for circuit safe guarding purposes. Therefore, when replacing, be sure to use specified parts only.



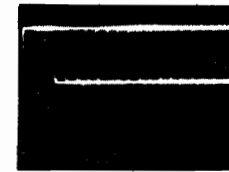
2. FRONT SECTION

1) FRONT



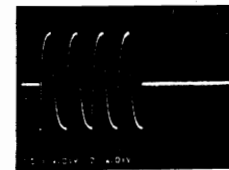
3. CD SECTION

① EFM



0.2V/DIV 0.5 μS/DIV

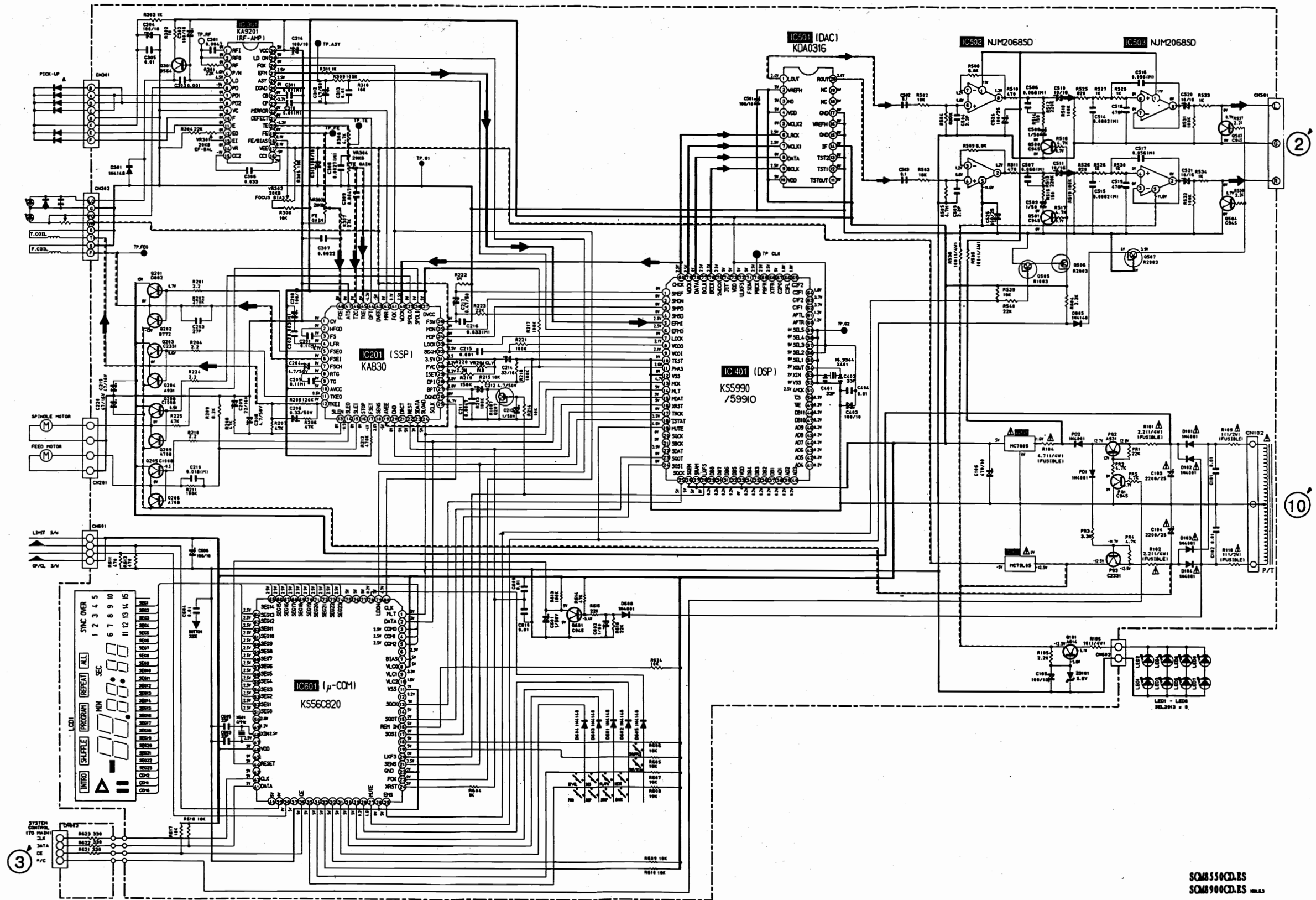
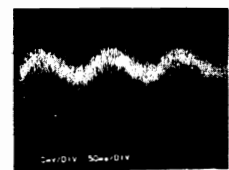
② FEO (no disc)



③ FEO (play)



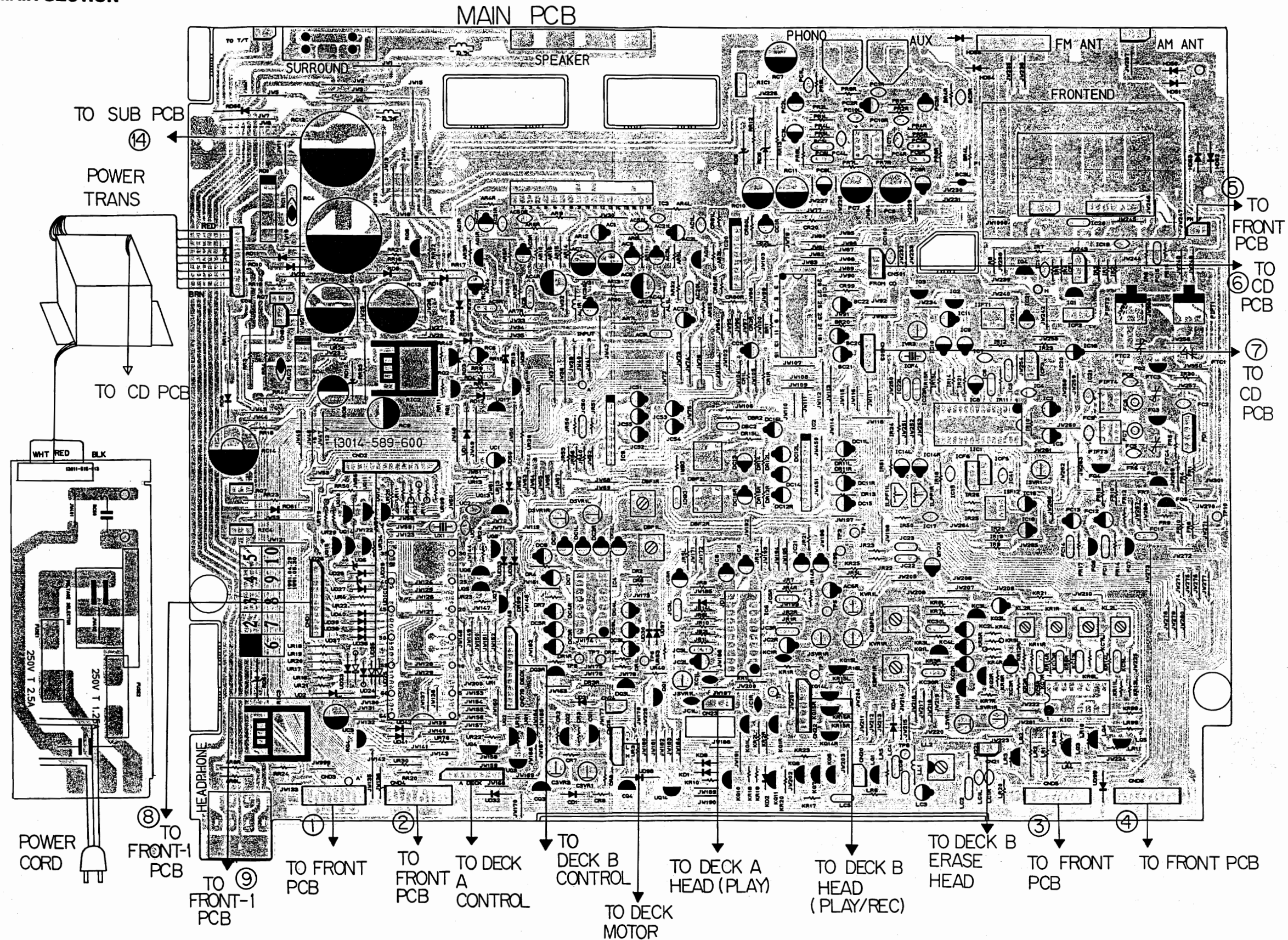
④ TEO



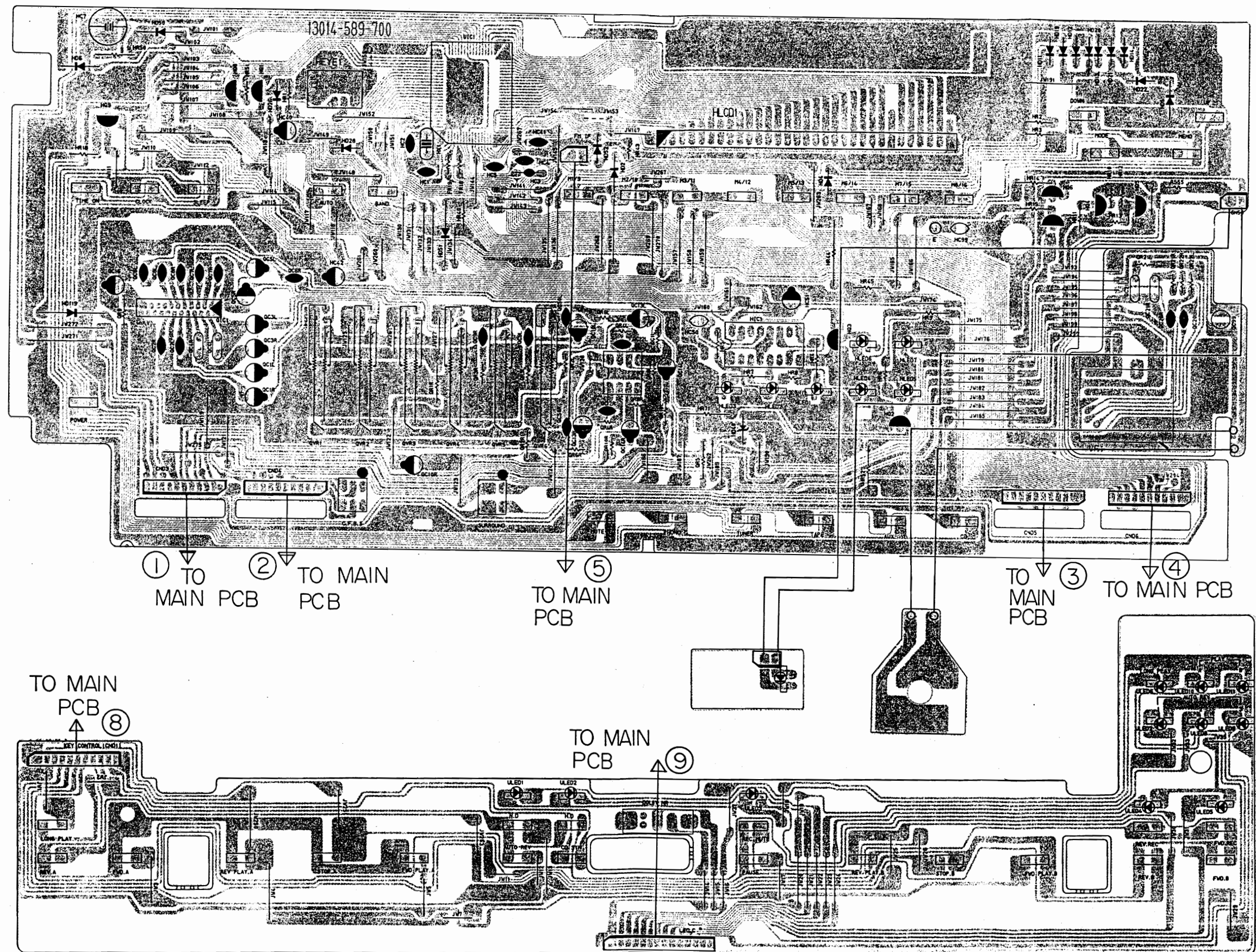
SCM550CD.IS
SCM5900CD.IS

WIRING DIAGRAM (PARTS SIDE)

1. MAIN SECTION



2. FRONT SECTION



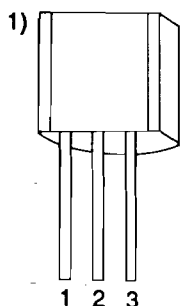
A	B	C	D	E	F	G	H	I	J	K	L	M
---	---	---	---	---	---	---	---	---	---	---	---	---



■ IC & TR INTERNAL DIAGRAM

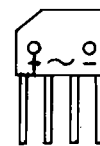
1. MAIN

- TR & DIODE

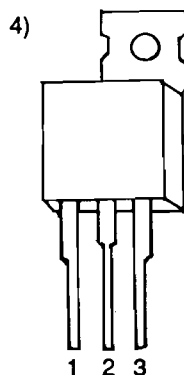
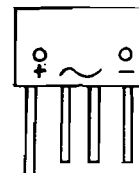


TR	1	2	3
KSR2003, KSR1003, KSR1007 KSR1009, KSR2007, KSC2331 KSR2004	E	C	B
KSC945, KSC1008, KSB564 KSA733, KSC838, KSA708 KSC1222	E	B	C

2) 3N246
(DIODE BRIDGE)
: RD4

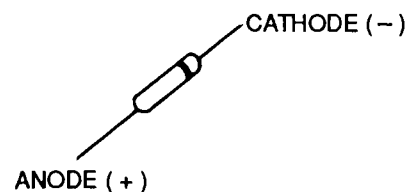


3) PBL403
(DIODE BRIDGE)
: RD1

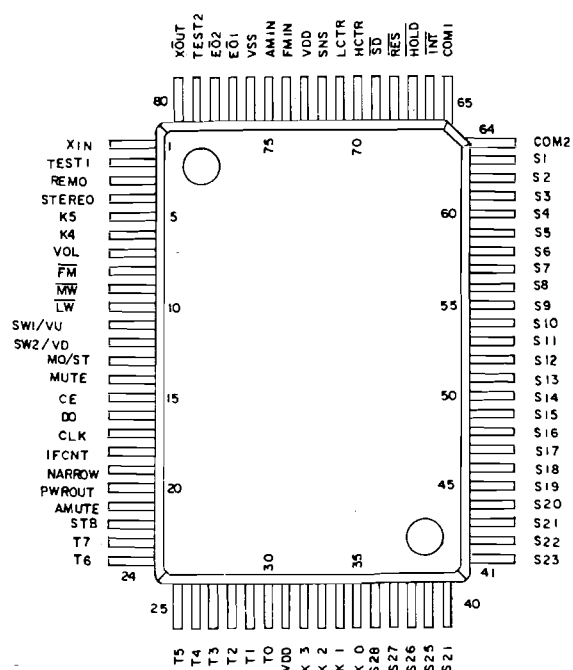


TR	1	2	3
MC78M05 MC7812C	IN	GND	OUT
KSD73-Y	B	C	E

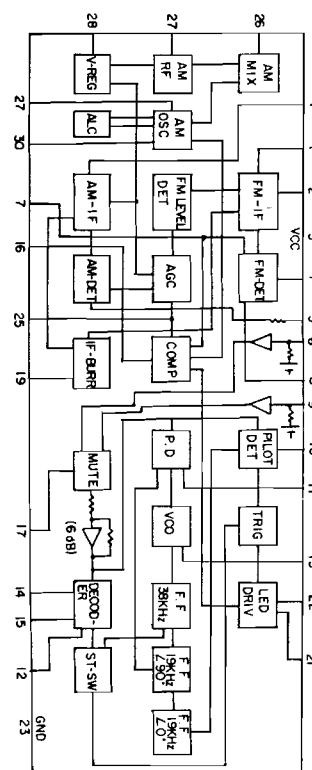
5) IN4148M, IN4001, 1SS53, ZENER DIODE



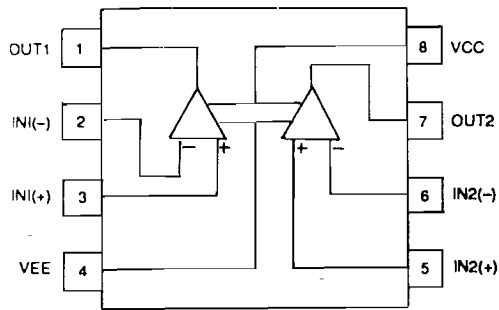
- LC7232-8380 (IC-DTS PLL) : UIC1



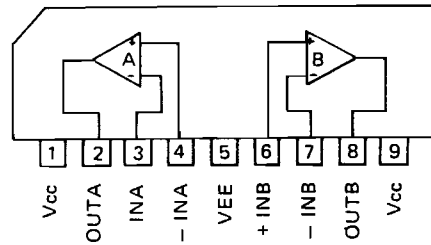
● LA1851N (FM, AM, IF IC) : IIC1



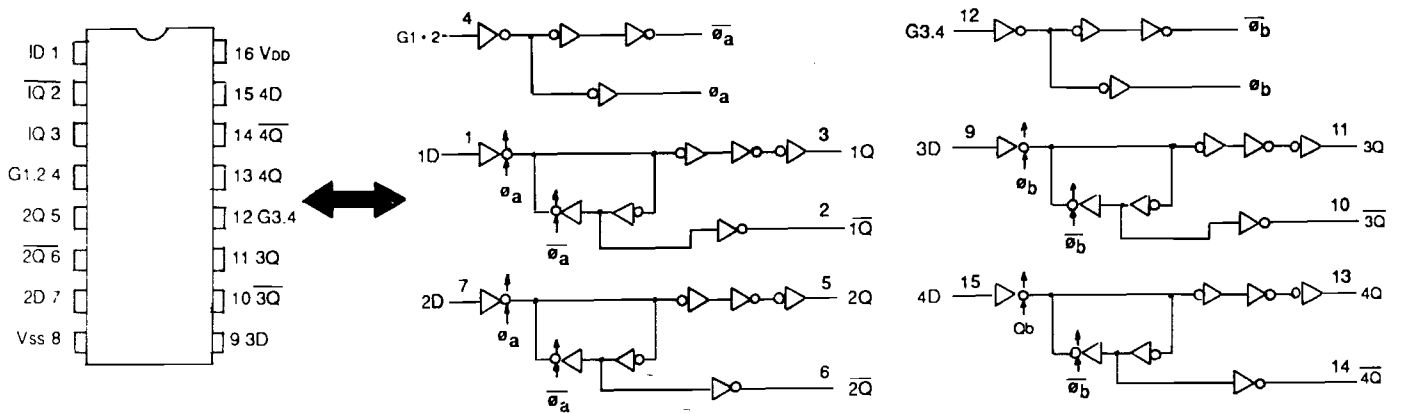
● MC4558C (OP AMP) : IC7, QIC2



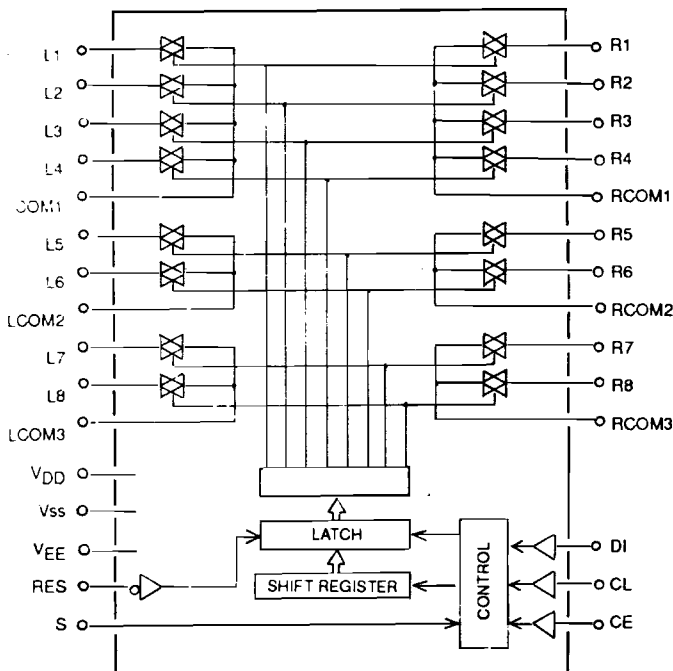
● NJM2068SD (OP AMP) : IC20



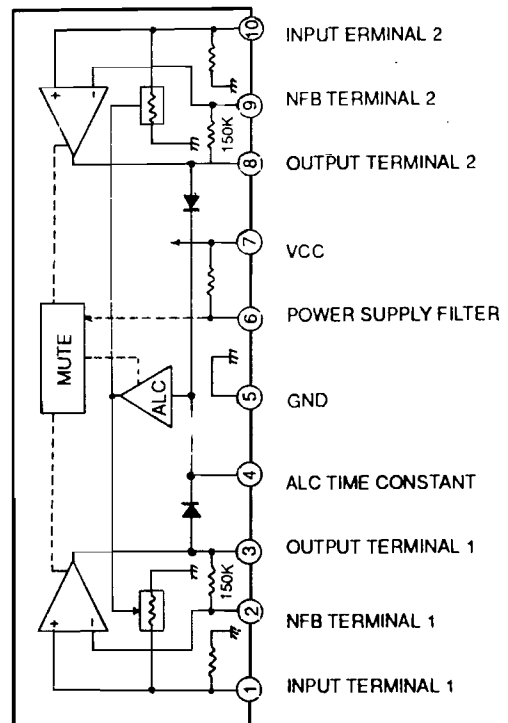
● LC74HC375/TC74HC375AF (IC-HCT) : HIC1



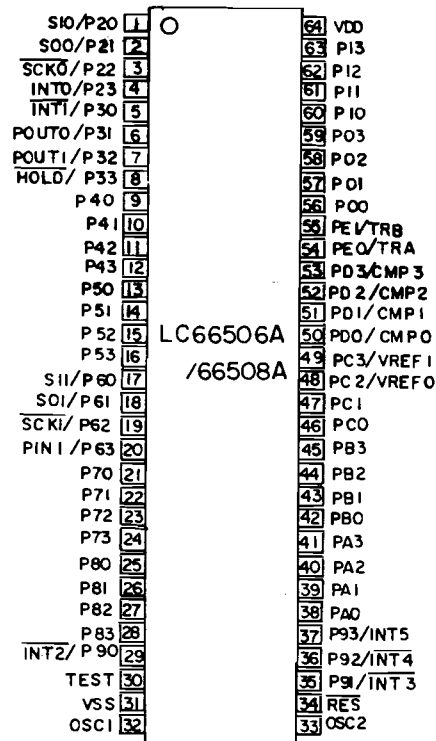
● LC7821 (IC-FUNCTION) : IC10



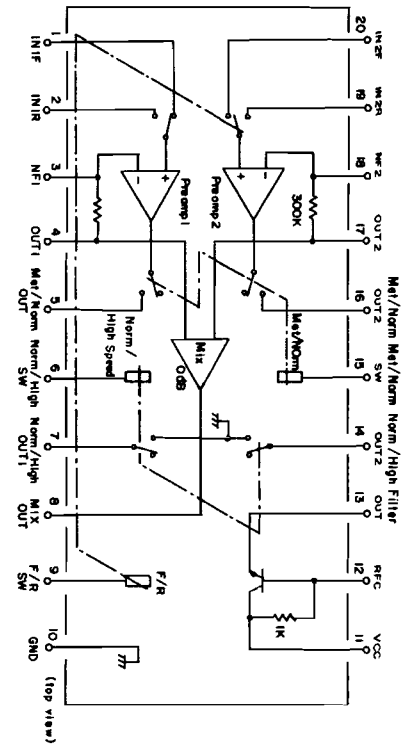
● BA3312N (IC-EQ) : IC2



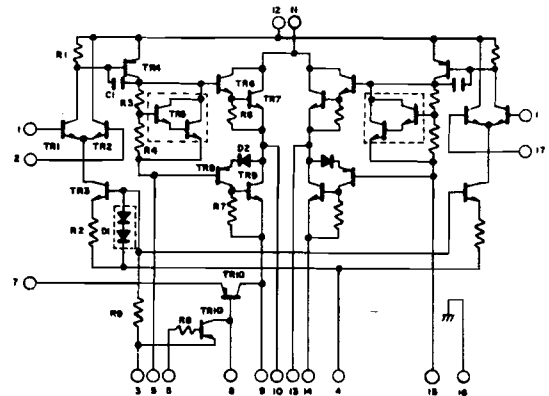
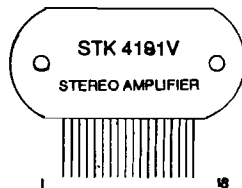
● LC66508-4517 (IC-μ COM) : UDIC1



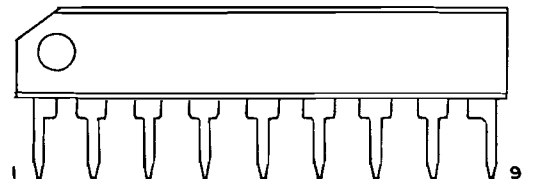
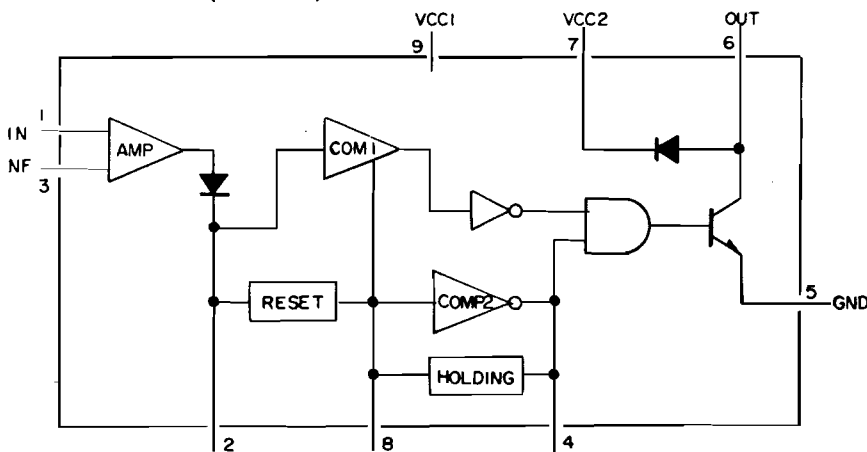
● LA3246 (IC-PLAY) : IC6



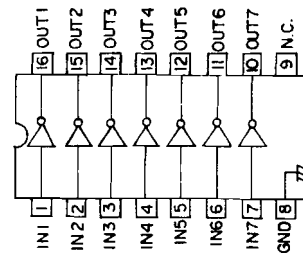
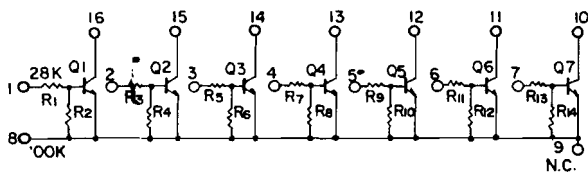
● STK4181 (IC-POWER) : IC3



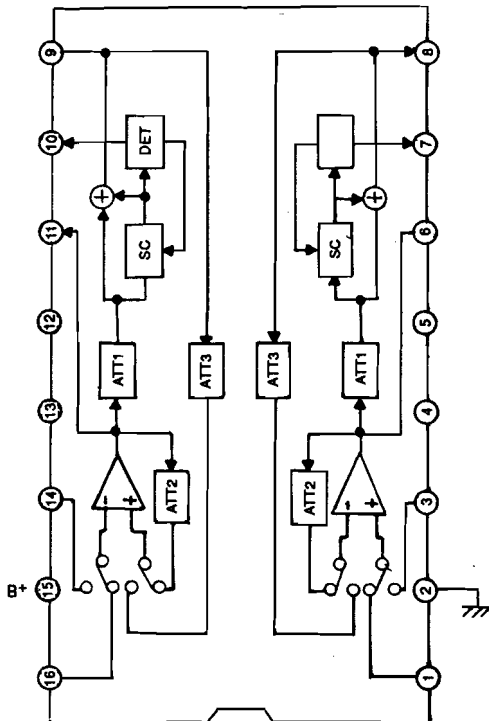
● LA2010 (IC-AMPS) : IC9



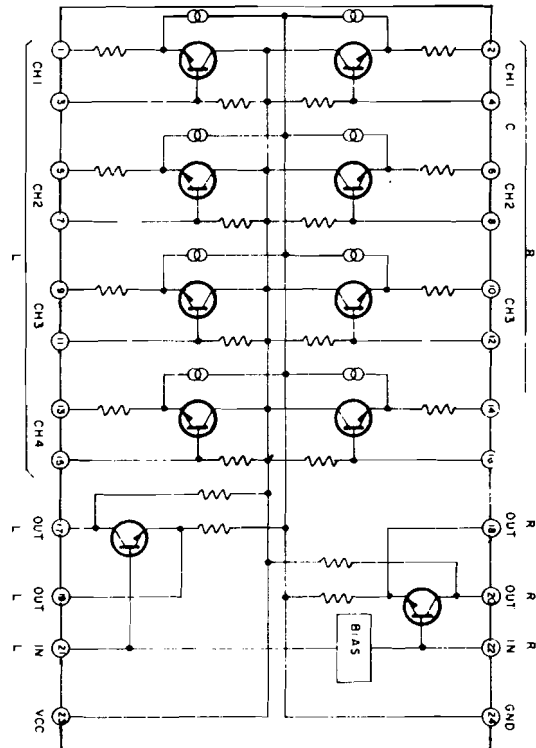
● BA6251 (IC-TR ARRAY) : KIC1



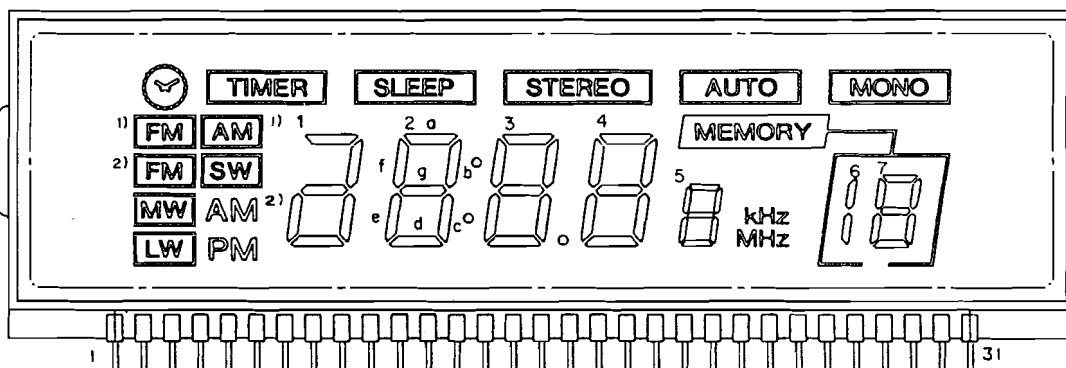
● KA2271 (DOLBY IC) : IC4



● KA22234 (IC-LINER) : QIC1



● 8190JP (LCD1) : HLCD1



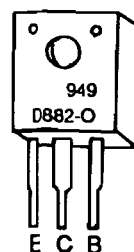
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COM1	COM	—	AM 1)	MW	SW	STEREO	PM	1b	1c	2f	2e	2d	2a	3f	3e	3d
COM2	—	COM	FM 1)	FM 2)	LW	AM 2)	—	1 adeg	COL	2b	2g	2c	—	3b	3g	3c

NO	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
COM1	3a	4f	4e	4d	4a	5g	5be	KHz	MEMORY	7f	7e	7d	7a	MONO	—
COM2	—	4b	4g	4c	—	5 acdf	—	MHz DP	AUTO	K6	7b	7g	7c	SLEEP	—

● TR

Diagram of a 3-pin connector with pins labeled 1, 2, and 3.

2) KSD882, KSB772

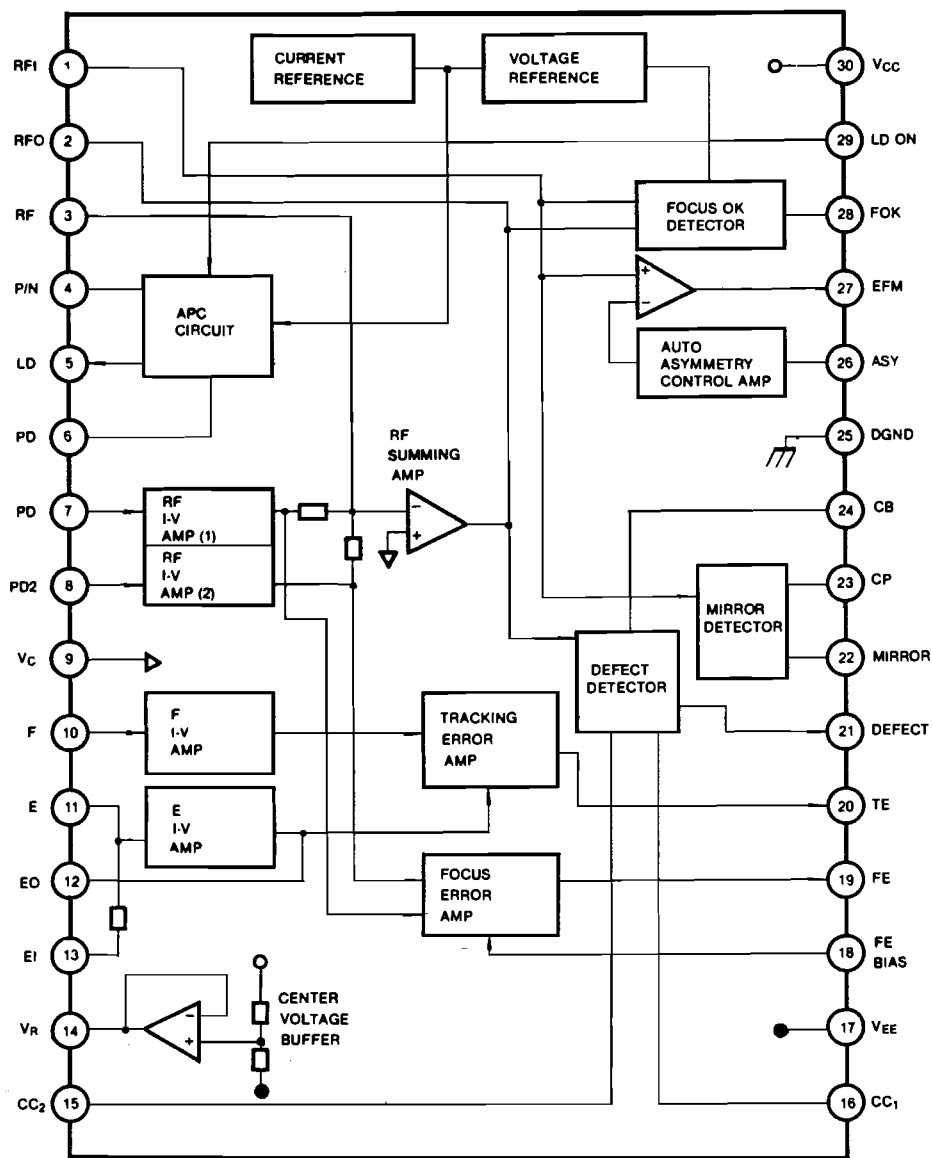


TR	1	2	3
MC78M05	IN	GND	OUT
KSA614	B	C	E

The block diagram illustrates the internal architecture of the TMS320C25 video processor. Key functional blocks include:

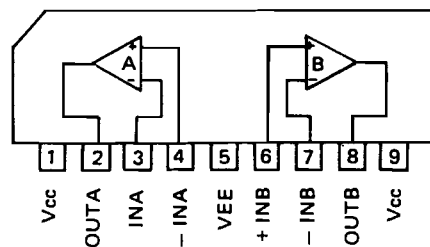
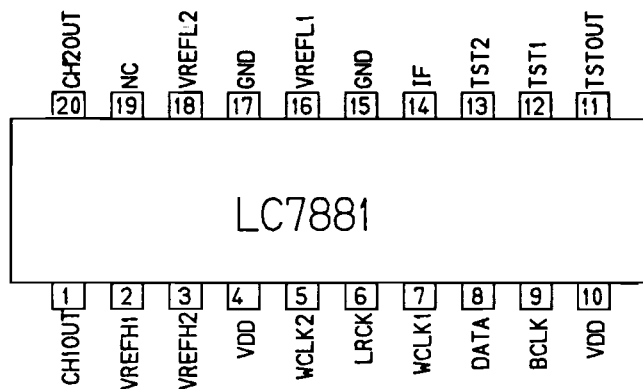
- Input/Output Buffers:** CV (Pin 1), FSGD (Pin 2), FS (Pin 3), LFR (Pin 4), FSEO (Pin 5), FSEI (Pin 6), FSCH (Pin 7), RTG (Pin 8), TG (Pin 9), AVCC (Pin 10), TKEO (Pin 11), and TKEI (Pin 12).
- Control and Timing:** FSW (Pin 36), MON (Pin 35), MDP (Pin 34), LOCK (Pin 33), 864M (Pin 32), 3.5V (Pin 31), FVC (Pin 30), ISET (Pin 29), DPI (Pin 28), BPF (Pin 27), DGND (Pin 26), and SCLK (Pin 25).
- Processing Blocks:** LPF (Low Pass Filter), VCO (Voltage Controlled Oscillator), VIC (Video Interface Controller), LOOP FILTER, 3.5V REGULATOR, SEQUENCER, SERIAL TO PARALLEL DECODER, OUTPUT DECODER, TRACKING GAIN CONTROL, TRACKING PHASE COMPENSATION, SLED JUMP PEAK VALUE CONTROL, TRACK JUMP PEAK VALUE CONTROL, FOCUS GAIN CONTROL, FOCUS PHASE COMPENSATION, FOCUS SEARCH PEAK VALUE CONTROL, HIGH FREQ. GAIN CONTROL, WINDOW COMPARTOR, and TTM CMOS.
- Output Buffers:** SPOLI (Pin 38), SPLO (Pin 39), WDCK (Pin 40), FOK (Pin 41), MRR (Pin 42), DVEE (Pin 43), DFT (Pin 44), TKE (Pin 45), TZC (Pin 46), ATS (Pin 47), and FCE (Pin 48).
- Internal Connections:** The diagram shows the interconnections between these blocks, including signal paths for tracking, focusing, and video data processing.

● KA9201 (RF AMP) : IC301

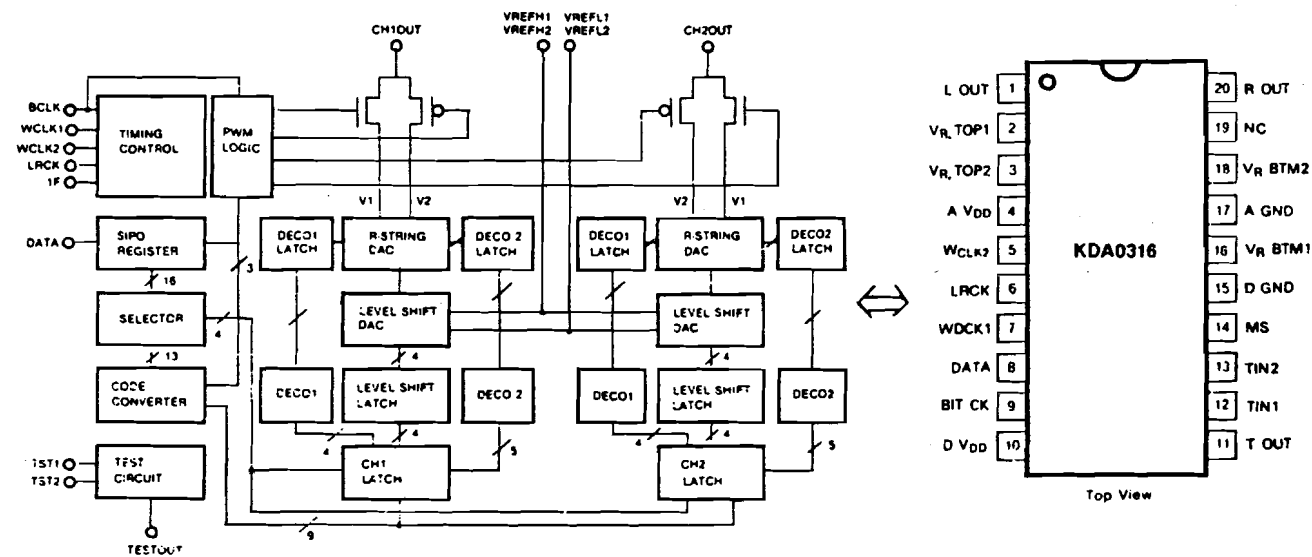
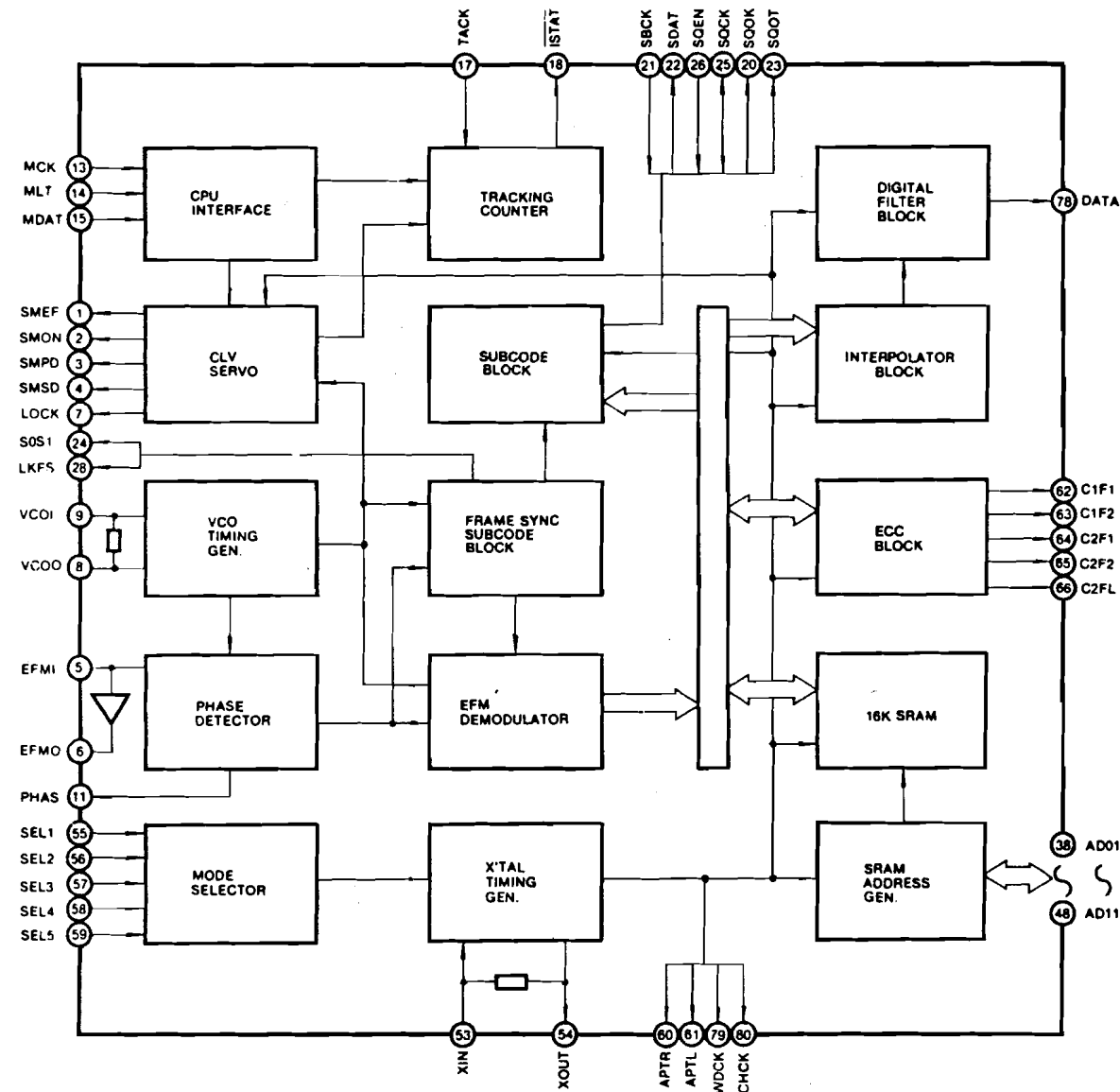


● LC7881 (D/A CONVERTOR) : IC501
* OPTIONAL

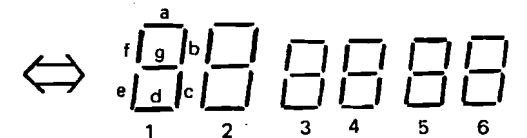
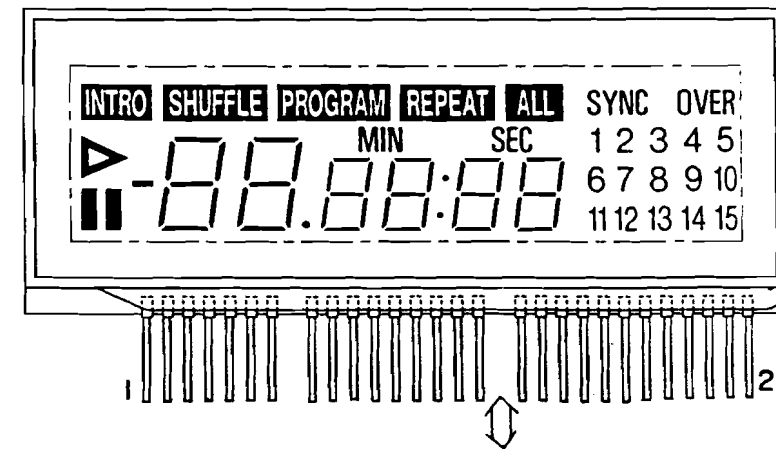
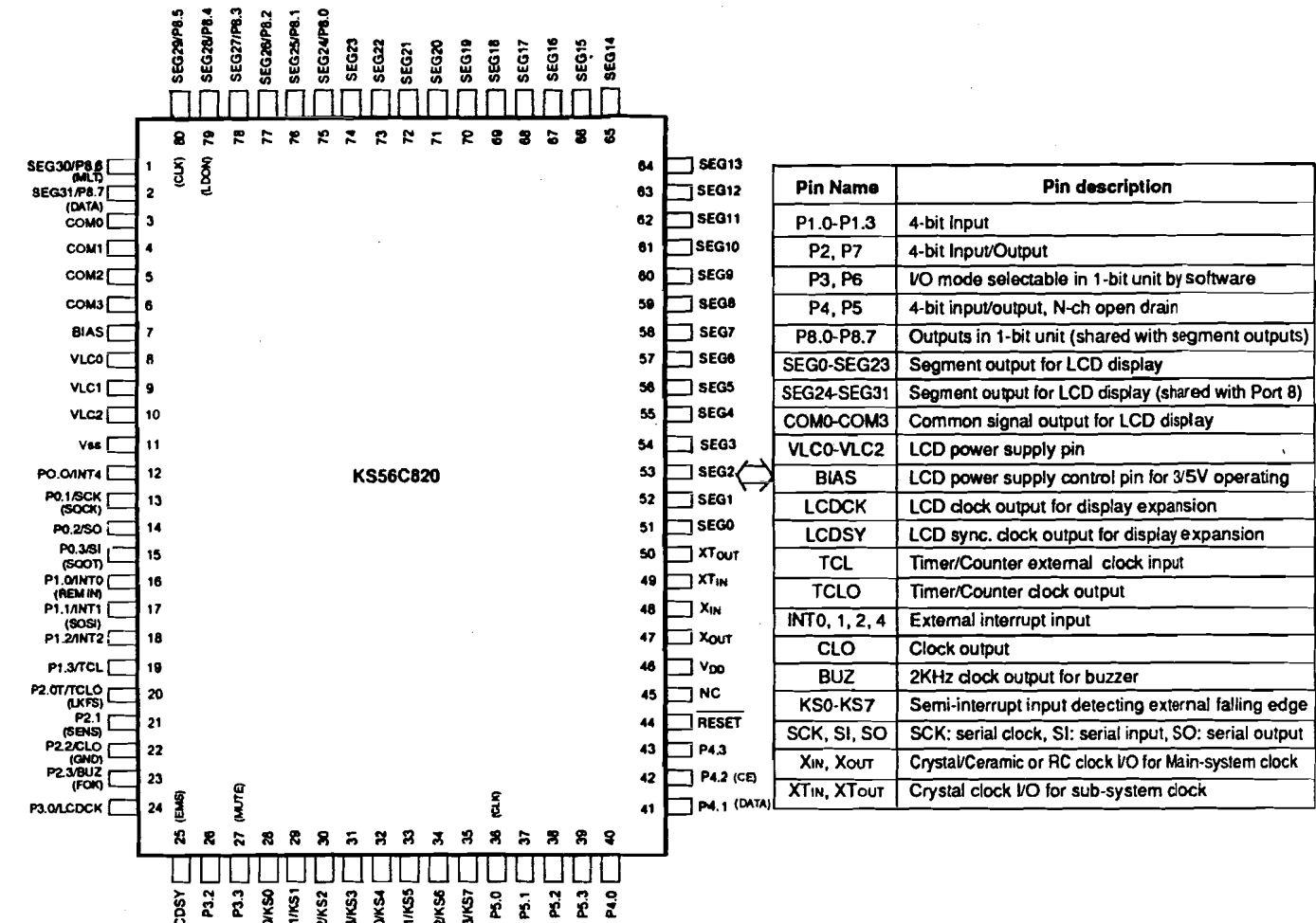
● NJM2068SD (OP AMP) : IC502, 503



- KDA0316LN (D/A CONVERTOR : IC501
* OPTIONAL



- HLC8036 (CD LCD) : LCD1

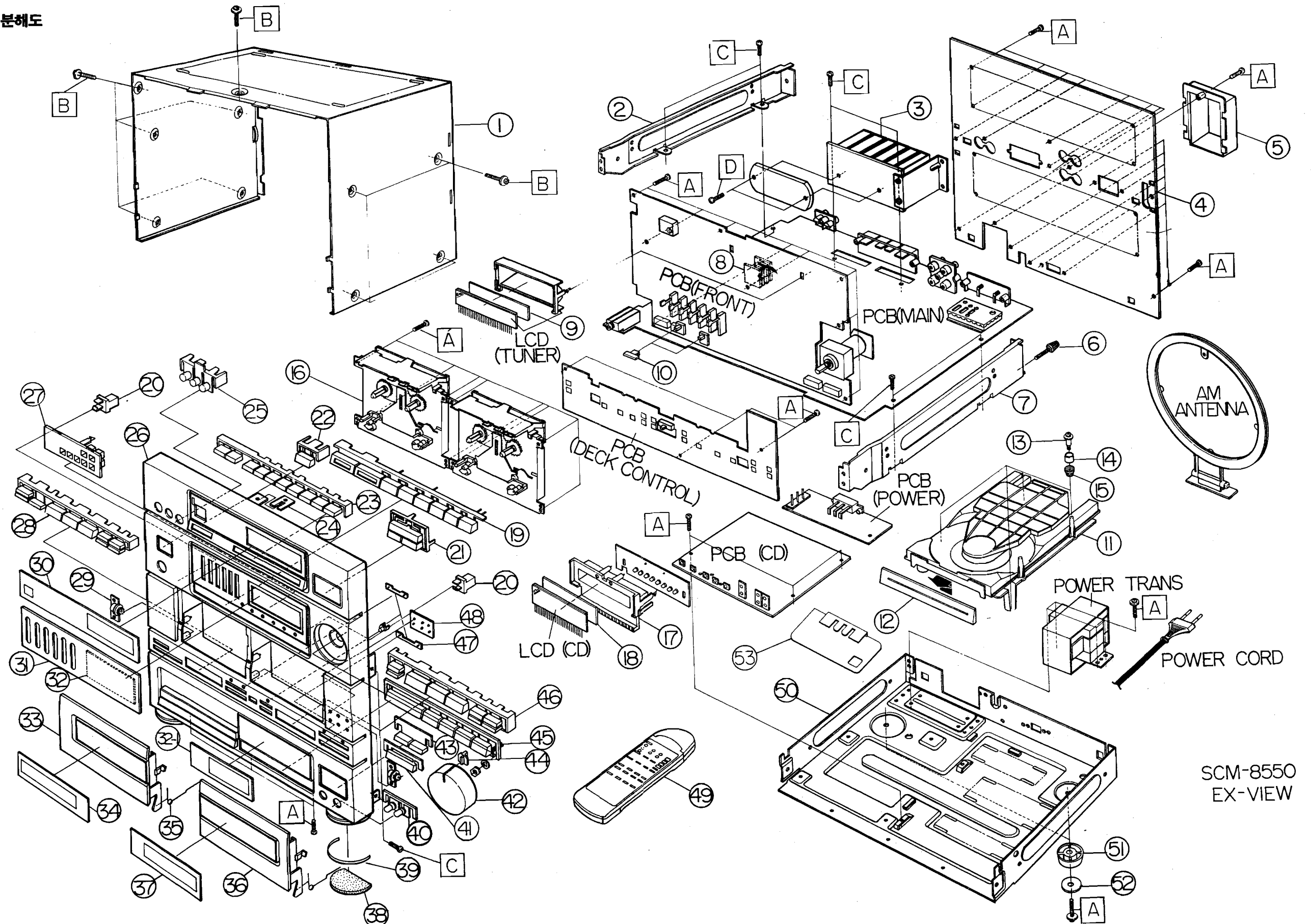


No.	COM. 1	COM. 2	COM. 3	No.	COM. 1	COM. 2	COM. 3	No.	COM. 1	COM. 2	COM. 3
1	COM.1			11	PROGRAM	3f	3e	20	SYNC	6f	6e
2		COM. 2		12	3 a	3g	3d	21	6 a	6g	6d
3			COM. 3	13	MIN	3b	3c	22	OVER	6b	6c
4	INTRO	▷	■ ■	14	REPEAT	4f	4e	23	1	6	11
5	—	1f	1e	15	4 a	4g	4d	24	2	7	12
6	1 a	1g	1d	16	:	4b	4c	25	3	8	13
7		1b	1c	17	ALL	5f	5e	26	4	9	14
8	SHUFFLE	2f	2e	18	5 a	5g	5d	27	5	10	15
9	2 a	2g	2d	19	SEC	5b	5c	28	N C		
10	•	2b	2c								

■ 기구분해도(기구부품목록 포함)

1. 메인(MAIN)부

• 분해도



● MECHANICAL PARTS LIST (MAIN)

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	QTY	REMARK
1	16100-500-210	CABINET-TOP ; VINYL STEEL 0.75T SCM6900	1	OPTIONAL
2	16122-536-010	FRAME-L ; SECC 0.8T SCM6900	1	
3	15009-501-820	HEAT-SINK ASSY ; AL ASSY SCM7550	1	
4	16131-501-510	COVER-REAR ; H/BOARD 110/220V	1	
5	16033-505-410	COVER-P/T ; HIPS 94HB BLK SCM6900	1	
6	13104-501-630	TERMINAL-SCREW ; SPC1 + ABS BLK V	1	
7	16122-536-110	FRAME-R ; SECC 0.8T SCM6900	1	
7-1	15684-507-610	HEAT-SINK ; EXTR AL WHT	2	
8	16602-504-310	HOLDER-TUNER LCD ; ABS WHT	1	
9	17654-571-910	FILTER-TUNER LCD ; PC0.5T AMBOR	1	
10	17624-622-010	KNOB-PUSH ; ABS 94HB BLK SCM6900	2	
11	14929-421-010	DECK-CD (DRAW) ; CMS-55/A	1	
12	17643-525-460	DOOR-GUIDE ; ABS BLK (L-GRAY SILK)	1	
13	17094-504-310	SCREW-STUD (B) ; TAP 2S-3 x 8	4	
14	16804-517-820	RUBBER-DECK ; BUTYL SCM7550	4	
15	16674-570-320	SPRING-DECK (B) ; STSW # 27	4	
16	14929-104-111	TAPE-DECK ; ADR1903W, SCM8550	1	
17	16601-500-710	HOLDER-CD, LCD ; ABS WHT + TiO2	1	
18	17654-571-810	FILTER-CD LCD ; PC 0.5T HILKY WHT	1	
19	17622-505-610	KNOB-FUNCTION, A ; ABS 94HB BLK	1	
20	16604-538-210	SWITCH-PUSH LOCK ; KIFCO LA701	2	
21	17622-504-510	KNOB-TUNER ; ABS BLK SILK SCM7800	1	
22	17622-502-310	KNOB-POWER ; ABS 94HB BLK SCM6900	1	
23	17622-505-310	KNOB-PRESET ; ABS 94HB BLK	1	
24	16624-563-810	BRKT-FRONT ; SBHG 1.0T VIP590	1	
25	17623-588-910	KNOB-TIMER ; ABS 94HB BLK	1	
26	16000-536-410	PANEL-FRONT ; HIPS BLK SCM8550 CIP	1	
27	16603-512-210	HOLDER-LED, A ; ABS WHT + TiO2	1	
28	17622-505-410	KNOB-DECK, A ; ABS 94HB BLK	1	
29	15214-506-011	DAMPER ASSY ; POM PD790	1	
30	17643-531-210	WINDOW-TUNER ; PVC 1.0T	1	
31	17643-531-310	WINDOW-EQ ; PVC 1.0T	1	
32	17654-571-610	MASK-FUNCTION ; PC 0.5T	1	
32-1	17644-525-710	WINDOW-CD ; PVC 1.0T	1	
33	17642-545-710	DOOR-CASSETTE, A ; ABS BLK CIP	1	
34	17644-525-510	WINDOW-DOOR, A ; PVC 1.0T	1	
35	16674-572-510	SPRING-DOOR (D) ; SUS-304 MQ-1310D	2	
36	17642-545-810	DOOR-CASSETTE, B ; ABS BLK CIP	1	
37	17644-525-610	WINDOW-DOOR, B ; PVC 1.0T	1	
38	16174-504-210	CUSHION-FOOT ; RUBBER SPONGE	2	
39	17824-526-710	DECO-FOOT ; AL 0.3T GOLD	2	
40	17623-588-410	KNOB-CD, INTRO ; ABS BLK SCM7800	1	
41	17622-504-810	KNOB-CD, PLAY ; ABS BLK SILKI SCM7800	1	
42	17623-575-410	KNOB-VOLUME ; ABS 94HB BLK SCM6900	1	
43	17622-504-910	KNOB-CD-SKIP ; ABS BLK SILKI SCM7800	1	
44	17644-517-220	LENS-VOLUME ; ACRYL-L/GRAY	1	

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
45	17622-505-010	KNOB-CD, FUNCTION ; ABS BLK SCM7800	1	
46	17622-505-510	KNOB-DECK-B ; ABS 94HB BLK	1	
47	17643-530-410	LENS-KNOB ; PMMA	1	
48	17643-530-310	LENS-DECK ; PMMA	1	
49	14909-501-710	REMOCON ASSY ; SCM6900N S/S CIP	1	
50	16101-502-110	CABINET-BOTTOM ; SECC 0.8T SCM7800	1	
51	16074-503-010	HOLDER-FOOT ; HIPS BLK	2	
52	16804-521-710	FOOT-CONTACT ; EVA RUBBER	2	
A	17458-230-101	SCREW-TAP TITE BH ; 2S-3 x 10 FE FZY	25	
B	17458-230-083	SCREW-TAP TITE BH ; B-3 x 8 FZB	10	
C	17154-100-630	SCREW-TAP RH SPEC ; 2S-3 x 8 FE FZY	19	
D	17154-100-670	SCREW-TAP RH SPEC ; 2S-3 x 12 FE FZY	17	
E	17448-130-201	SCREW-TAP TITE BH ; B-3 x 20 FE FZY	2	

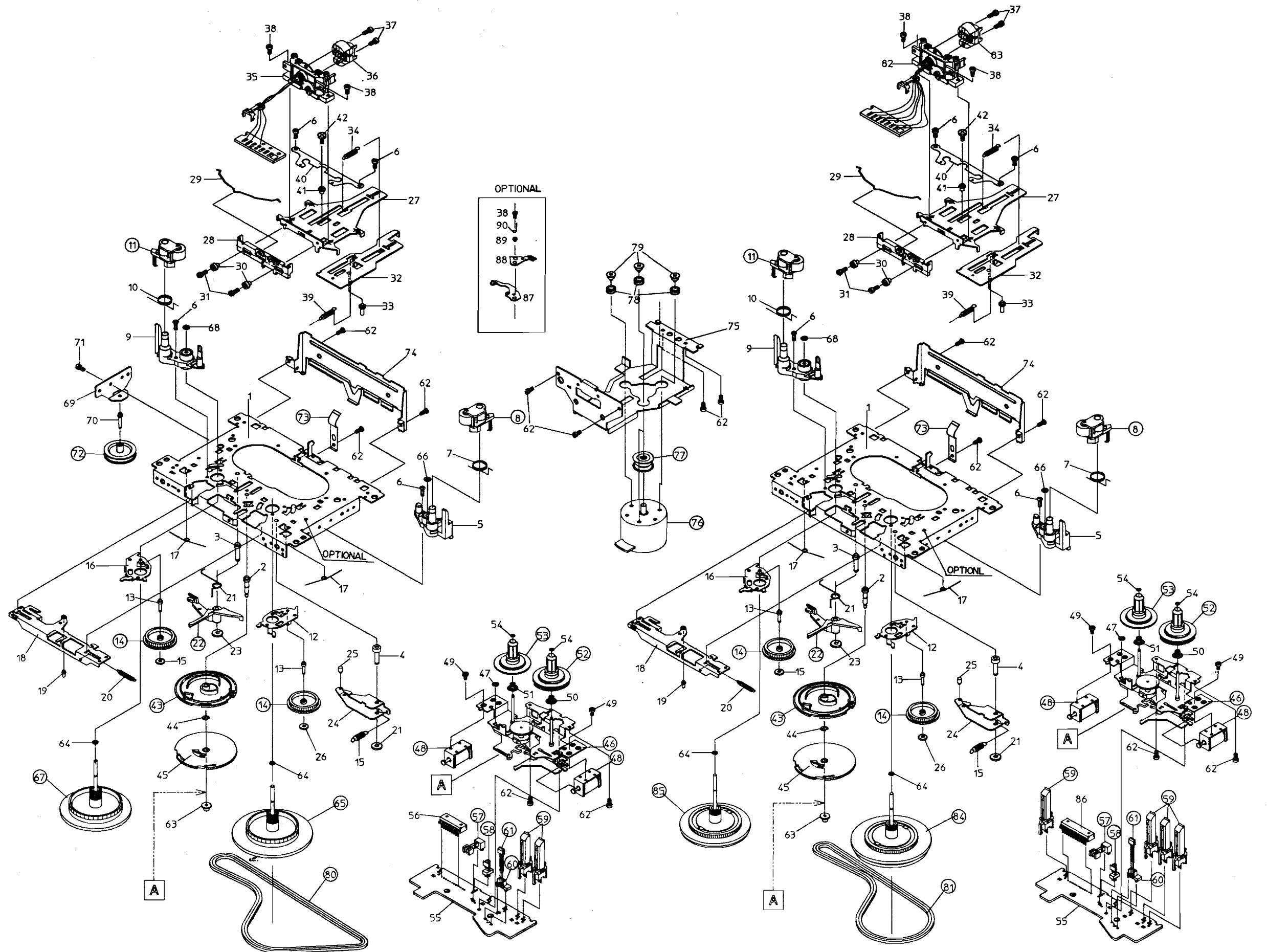
2. CASSETTE DECK ASSEMBLY

● MECHANICAL PARTS LIST

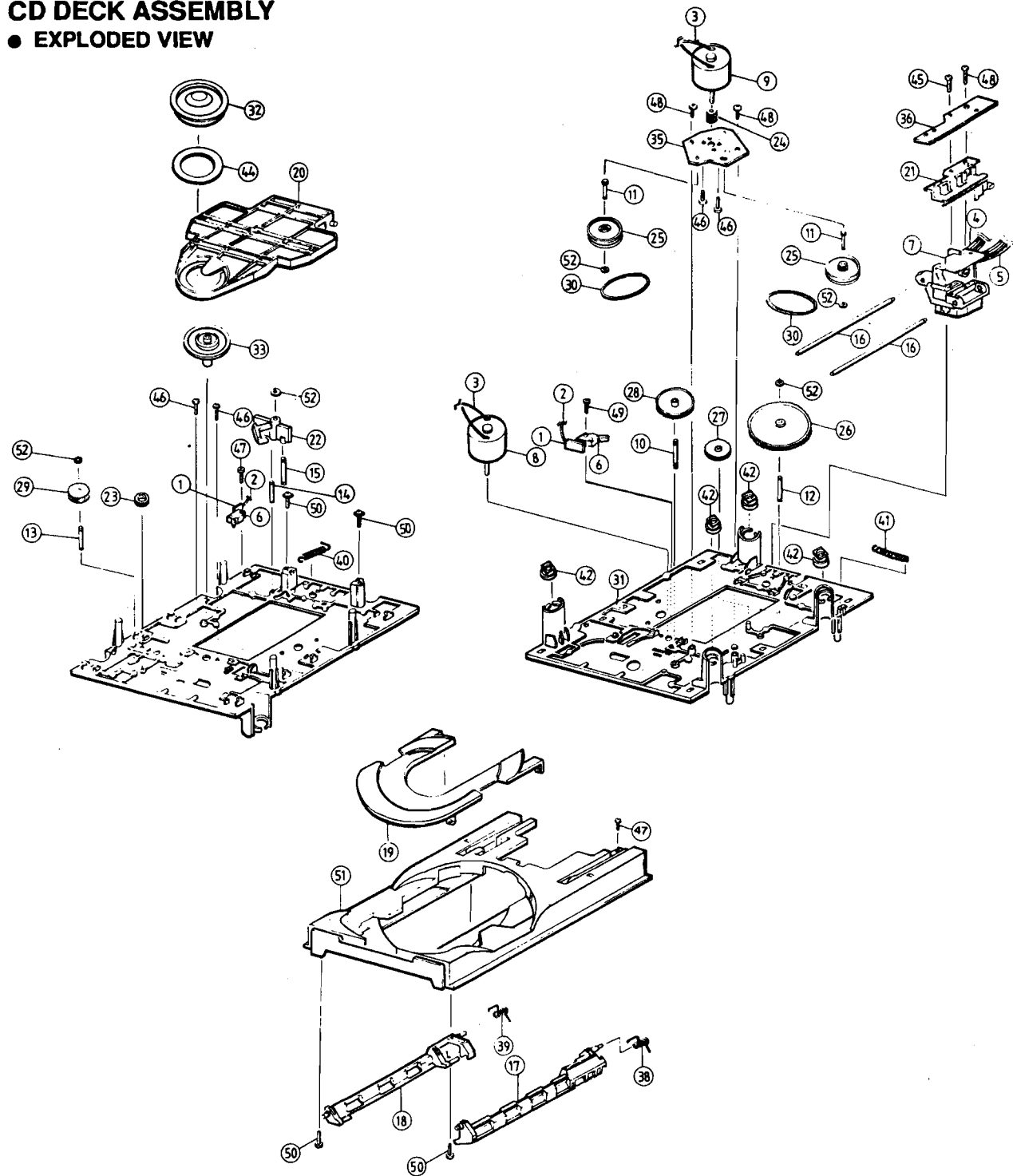
No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
	14929-104-111	DECK-TAPE ; ADR 1903W, SCM-8550		
8	10000-609-108	ASSY-ARM PINCH F ; ADR26-011	2	
11	10000-609-111	ASSY-ARM PINCH R ; ADR26-012	2	
14	10000-609-114	GEAR-FWD ; 11128-00520AA	4	
22	10000-609-122	ARM-CAM LOCK P ; 11102-00780AA	2	
43	10000-609-143	GEAR-CAMP ; 11128-00530AA	2	
46	10000-609-146	ASSY-CHASSIS REEL ; ADR12-034	2	
48	10000-609-148	SOLENOID ; 79840-00002AA	4	
52	10000-609-152	ASSY-REEL F ; ADR28-005	2	
53	10000-609-153	ASSY-REEL R ; ADR28-006	2	
57	10000-609-157	SWITCH (RF) ; 70022-02040DA	2	
58	10000-609-158	SWITCH (P) ; 70022-02041CA	2	
59	10000-609-159	SWITCH (TAPE) ; 70022-02042DA	6	
60	10000-609-160	HOLDER SENSOR ; 11130-00160AA	2	
61	10000-609-161	HALL IC ; 69801-99002ZA	2	
65	10000-609-165	ASSY-FLYWHEEL F (D) ; ADR15-014	1	
67	10000-609-167	ASSY-FLYWHEEL R (D) ; ADR15-015	1	
72	10000-609-172	PULLEY-SUB ; 11145-00540AA	1	
73	10000-609-173	SPRING-PLATE ; 51299-02506XC	2	
76	10000-609-176	MOTOR (MABUCHI) ; 71650-12010AA	1	
77	10000-609-177	PULLEY-MOTOR D ; 11145-00530AA	1	
80	10000-609-180	BELT 1 (ø 91.5) ; 51428-09113BA	1	
81	10000-609-181	BELT 2 (ø 80) ; 51428-08013BA	1	
84	10000-609-184	ASS'Y-FLYWHEEL F ; ADR15-0012	1	
85	10000-609-185	ASS'Y-FLYWHEEL R ; ADR15-0013	1	

* Parts which are not discribed in the CASSETTE DECK list are not serviceable.
If you need any other parts except those described, apply CASSETTE DECK assembly.

● EXPLODED VIEW (CASSETTE DECK)



3. CD DECK ASSEMBLY
● EXPLODED VIEW



● MECHANICAL PARTS LIST

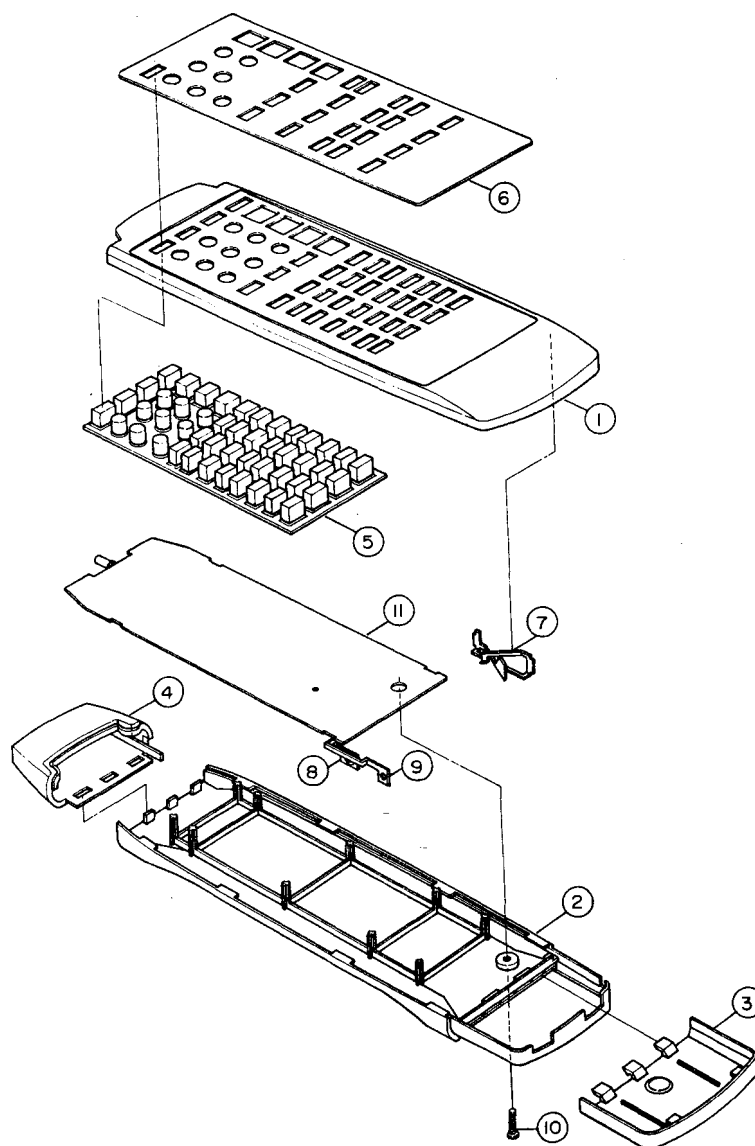
No.	CODE No.	DESCRIPTION & SPECIFICATION	QTY	REMARK
	14929-421-010	DECK-CD(DRAW) ; CMS-55/A	1	
1	13014-582-500	PCB-MICRO SW ; IVO	2	
2	13029-041-130	CONNECTOR ; 4PIN(SW)	1	
3	13029-041-230	CONNECTOR ; 4PIN(MOTOR)	1	
4	13052-901-040	CONNECTOR ; 8PIN(SHIELD)	1	
5	13079-618-125	CONNECTOR ; 8PIN	1	
6	13579-901-010	MICRO-S/W;SSCTL1217A	2	

No.	CODE No.	DESCRIPTION & SPECIFICATION	QTY	REMARK
7	14239-101-110	SAMSUNG OPTICAL HEAD ; SOH89T1	1	
8	14769-057-240	MOTOR-SPINDLE ; RF-310T(SHAFT 18.9)	1	
9	14769-057-250	MOTOR-FEED ; RF-310T(SHAFT 10.9)	1	
10	15104-531-010	SHAFT-GEAR(C) ; SUM24L(SERRATION)SCM7550	1	
11	15104-531-110	SHAFT-GEAR(D) ; SUM24L SCM7550L	2	
12	15104-531-210	SHAFT-GEAR(A) ; SUM24L SCM7550L	1	
13	15104-531-220	SHAFT-GEAR(B) ; SUM24L SCM7550L	1	
14	15104-531-310	SHAFT-LEVER(A) ; SUM24L SCM7550	1	
15	15104-531-410	SHAFT-LEVER(B) ; SUM24L SCM7550	1	
16	15104-531-510	SHAFT-PU ; SUS 420J2 SCM7550	2	
17	15252-501-110	LEVER-LIFTER(R) ; P.B.T G15% SCM7550	1	
18	15252-501-210	LEVER-LIFTER(L) ; P.B.T G15% SCM7550	1	
19	15252-501-310	LIFTER-DISC ; ABS BLK SCM7550	1	
20	15252-501-410	COVER-DISC ; P.B.T G15% SCM7550	1	
21	15253-503-310	GUIDE-PU ; P.O.M SCM7550	1	
22	15253-503-410	LEVER-MAIN ; P.O.M SCM7550	1	
23	15254-509-110	GEAR-DOOR SLIDING(A) ; P.A NTR SCM7550	1	
24	15254-513-610	GEAR-MOTOR ; P.O.M SCM7550	1	
25	15254-513-710	GEAR-PU(A) ; P.O.M SCM7550	2	
26	15254-513-810	GEAR-PU(B) ; P.O.M SCM7550	1	
27	15254-513-910	GEAR-PU(C) ; P.O.M SCM7550	1	
28	15254-514-010	GEAR-DOOR(A) ; P.O.M SCM7550	1	
29	15254-514-310	GEAR-DOOR(C) ; P.O.M SCM7550	1	
30	15274-501-520	BELT-MOTOR ; NEOPLENE 1.2T SCM7550	2	
31	16021-504-710	BRKT MAIN(M) ; E. G T1.6+POM SCM7550	1	
32	16604-538-310	PLATE CHUCK ; P.O.M SCM7550	1	
33	16604-538-410	TURN-TABLE ; P.C G20% SCM7550	1	
35	16624-571-410	BRKT-MOTOR ; EG 1.2T SCM7550	1	
36	16624-571-910	BRKT-P/U ; SECC 1.0T SCM7550	1	
38	16674-560-510	SPRING-LIFTER R ; STSW #27 SCM7550	1	
39	16674-560-610	SPRING-LIFTER L ; STSW #27 SCM7550	1	
40	16674-560-710	SPRING-COVER ; STSW #27 SCM7550	1	
41	16674-560-810	SPRING-LEVER ; STSW #27 SCM7550	1	
42	16804-517-820	RUBBER-DECK ; BUTYL SCM7550	4	
44	16844-520-210	SHEET-CHUCK ; HYMERON T0.5 SCM7550	1	
45	17008-120-063	SCREW-PH ; +M2X6 FE FZB DT-850	1	
46	17098-120-032	SCREW-BH ; +M2X3 FE FZW	4	
47	17108-520-063	SCREW-TAP PH ; 2S-2X6 FE FZB	1	
48	17148-526-081	SCREW-TAP, RH ; 2S-2.6X8 FE FZY	3	
49	17158-220-103	SCREW-TAP, BH ; 2-2X10 FE FZB	2	
50	17558-230-081	SCREW-TAP TITE SPEC ; S-3 X 8FZY	4	
51	17641-500-810	DOOR-DISC ; ABS BLK	1	
52	18314-500-810	RING-O ; POLY SLIDER PI1.2 SCM7550	5	

* Parts which are not discribed in the CD DECK list are not serviceable.
If you need any other parts except those described, apply CD DECK ass'y.

4. REMOTE CONTROL

● EXPLODED VIEW



● MECHANICAL PARTS LIST

No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
	14909-501-710	REMOCON ASSY ; SCM6900 S/S CIP	1	
1	16002-517-910	CABINET-TOP ; ABS BLK	1	
2	16002-518-010	CABINET-BOTTOM ; ABS BLK	1	
3	16033-506-010	COVER-BATTERY ; ABS BLK	1	
4	16033-506-110	FILTER-REMOCON ; PC BLUE	1	
5	16803-500-310	RUBBER-KEY ; RUBBER	1	
6	17653-536-710	INLAY-FUNCTION ; PVC 0.5T EMBO	1	
7	16674-572-710	SPRING-A ; SUS 302 0.4T	1	
8	16674-572-810	SPRING-B ; SUS 302 0.4T	1	
9	16674-572-910	SPRING-C ; SUS 302 0.4T	1	
10	17118-530-103	SCREW-TAP FH ; 2S-3 x 10 FZB	1	

■ ELECTRICAL PARTS LIST

⚠ indicates parts for circuit safeguarding purposes. Therefore, when replacing, be sure to use specified parts only.

1. MAIN SECTION

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
LR1, RR12, 13	11048-477-151	R-METAL OXIDE ; RS1T 150-J MINI TYPE	3	⚠
AR7L, 7R	11048-477-479	R-METAL OXIDE ; RS1T 4.7-J MINI TYPE	2	⚠
RR23	11048-577-331	R-METAL OXIDE ; RS2T 330-J MINI TYPE	1	⚠
AR12, 9	11058-223-101	R-FUSIBLE ; CRF 1/4W 100-J	2	⚠
RR3, 4, 14	11058-477-109	R-FUSIBLE ; RF 1T 1-J	3	⚠
KVR1L, 1R, ISVR1	11249-102-064	VR-SEMI TAPE-H ; DVN-DJA A03B54 (50K)	3	
DSVR1L, 1R	11249-102-044	VR-SEMI TAPE-H ; DVN-DJA P03B24 (20K)	2	
CSVR1, 3	11249-112-010	SEMI-VR ; RH0615C100 222 (2.2KB)	2	
JSVR1L, 1R	11249-102-014	VR-SEMI TAPE-H ; DVN-DJA A03B52 (500)	2	
LSVR1L, 1R	11249-112-210	VR-SEMI ; RH0615C100 224 (220KB)	2	
IVR3	11249-002-010	VR-SEMI, FIXED ; VZ066L, 50KB, HDK	1	
BC3L, 3R, FC5	11449-117-150	CONDENSER AXIAL-LEAD ; 50V UP 050 SL15-J	3	
PC4L, 4R	11449-117-470	CONDENSER AXIAL-LEAD ; 50V UP 050 SL47-J	2	
AC1R, 1L, JC1L, 1R	11449-518-471	CONDENSER AXIAL-LEAD ; 50V UP050 B470-K	4	
KC1L, 1R	11449-518-681	CONDENSER AXIAL-LEAD ; 50V UP050 B680-K	2	
RC7, 9	11608-103-331	C-ELECTROLYTIC ; SMS T 16V 330M (8 x 11.5)	2	
RC9, 10, 7, 11	11608-103-471	C-ELECTROLYTIC ; SMS T 16V 470M (10 x 12.5)	6	⚠
UC3, IC18				
RC14	11608-403-332	C-ELECTROLYTIC ; SMS T 16V 3300 (16 x 25)	1	⚠
RC13, 15	11608-104-222	C-ELECTROLYTIC ; SMS T 25V 2200M (16 x 25)	2	⚠
QC6, 7	11608-106-101	C-ELECTROLYTIC ; SMS T 50V 100M (8 x 11.5)	2	⚠
RC4, 12	11608-116-332	C-ELECTROLYTIC ; SMS T 42V 3300M (18 x 35.5)	2	⚠
DC6, 7, IC18, PC3L	11608-153-101	C-ELECTROLYTIC ; SRA T 16V 100M (6.3 x 7)	8	
PC3R, JC8, 9, IC21				
FTC1, 4	11829-512-030	C-TRIMMER ; TZ03R 20PF	2	
FTC2, 3	11829-512-030	C-TRIMMER ; TZ03R 20PF	2	LW BAND
IC4	12109-323-990	IC-DOLBY ; KA2271	1	
UDIC1	12109-401-200	IC-U COM ; LC66508-4517	1	
IC10	12109-401-270	IC-FUNCTION ; LC7821	1	
RIC1, 2	12109-401-690	IC-REGULATOR ; MC7812C	2	⚠
IC2	12119-102-050	IC-EQ ; BA3312N	1	
KIC1	12119-102-330	IC-TR ARRAY ; BA6251	1	
IIC1	12119-102-720	IC AM, FM IF ; LA1851N	1	
IC9	12119-201-610	IC-AMPS ; LA2010	1	
IC6	12119-201-840	IC-PLAY ; LA3246	1	
IC3	12119-205-040	IC-POWER ; STK4181-V	1	⚠
IC7	12119-401-170	IC-OP AMP ; MC4558C	1	
IC20	12119-401-760	IC-OP AMP ; NJM2068SD/UPC4570HA	1	
RIC4	12119-601-170	IC-VOLT REGULATOR ; MC78M05	1	⚠
RQ7	12139-103-560	TRANSISTOR ; KSA 614-O	1	
FQ7, 8	12139-601-200	TRANSISTOR SILICON ; 2SK, 583	2	
RD3, 4	12169-403-210	DIODE-ZN ; RD4.7F	2	
RD51	12169-403-570	DIODE-ZN ; UZP2.4B	1	
RD5, 6	12169-403-910	DIODE-ZN ; 1W11.4-12.6V UZP-12B	2	⚠
RD12, UD26, 29	12169-404-110	DIODE-ZN ; RD5.6FB/UZP-5.6B	3	

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
FQ5, 6	12149-101-520	TRANSISTOR ; KSA733-Y, TAPE	2	
LQ2, 4, CQ1, KQ10	12149-101-560	TRANSISTOR ; KSA708-Y, TAPE	4	
UQ1, 2, 5, 6, CQ3	12149-202-050	TRANSISTOR ; KSB564A-Y-	5	
KQ2L, 2R	12149-301-820	TRANSISTOR ; KSC1222-L, TAPE	2	
IQ1	12149-301-860	TRANSISTOR ; KSC838-O, TAPE	1	
UQ46, RQ1, 2, AQ1L	12149-301-900	TRANSISTOR ; KSC 945-Y, TAPE	11	
AQ1R, FQ2, 3, 4				
KQ1L, 1R, CQ2				
LQ1	12149-301-910	TRANSISTOR ; KSC2331-Y, TAPE	1	
RQ4, 6, UQ17	12149-301-930	TRANSISTOR ; KSC1008-Y, TAPE	7	
KQ14L, R, KQ15L, R				
RIC3	12149-401-070	TRANSISTOR ; KSD73-Y	1	⚠
UQ14, 15, KQ6, CQ44	12159-301-330	TR-DIGITAL ; KSR2003, TAPE	4	
IQ2	12159-301-760	TR DIGITAL ; KSR2004	1	
UQ3, 4, 7, 8, 10, 11	12159-301-780	TR DIGITAL ; KSR 1003	21	
UQ12, 13, 18, KQ1L, R				
KQ7, 8, 11, DQ1				
DQ3L, R, LQ3, 5				
IQ3, 4				
UD2, 31, 32, 33, 34	12169-201-080	DIODE-RECTIFIER ; 1N 4001, TAPE	11	⚠
RD8, 10, 9, 11, 50, 54				
RD4	12169-209-150	DIODE BRIDGE ; 3N246 1A 50V	1	⚠
RD1	12169-219-330	DIODE-BRIDGE ; PBL403	1	⚠
UD23, 24, 25, 30, 35	12169-301-290	DIODE-SW ; 1SS53/1N4148, CT : 6PF	30	
UD36, 41, 42, 45				
HD50, 51, UD1, 27				
UD28, 36, 37, 38, 39, 50				
UD53, DR13, CD1				
RD12, 15, 16, 61				
KD1, 2, 4, 8				
FD1	12169-501-005	DIODE ; KV 1236	1	
AL1L, 1R	12429-060-031	COIL-CHOKE, SPK ; 2R2UH-K F7R9 RD 1/4P 10-J	2	
IIFT1	12619-020-067	COIL 7 CAN ; AB FM BLU	1	
IIFT2	12619-030-005	COIL-CAN ; AC 450KHz YEL	1	
FIFT4	12619-047-202	COIL-CAN ; AD 510UH 220KHz BRN	1	LW BAND
FIFT3	12619-047-203	COIL-CAN ; AD 110UH 796KHz RED	1	
KL1L, 1R	12619-053-911	COIL-CAN ; AE 4.7MH 252KHz BLK	2	
KL2L, 2R	12619-057-417	COIL-CAN ; AE 6.8MH 252KHz BLK	2	
FIFT2	12619-566-910	TRANS TEN, CAN ; AF2.4MH FLW RED	1	LW BAND
FIFT1	12619-411-003	COIL-MW ANT ; 207BRLZ-K5026N-KR STICK	1	
LL2	12619-577-771	BIAS OSC ; PCHNS-5371EQJ	1	
DBF1L, 1R, KBPF1L, 1R	12619-636-474	COIL CAN ; AM 2.2M MF NON STICK	4	
SPK	13303-500-623	TERMINAL-BOARD PUSH ; N 4P STICK	1	
AUX/PHONO	13337-417-080	JACK-AUX ; 4P 38MM	1	
H.P	13339-101-610	JACK-HEADPHONE ; HLJ4306-01-3040	1	
SURROUND	13339-417-030	JACK-RCA ; 2P (S-434)	1	

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
ICF5, 6	14529-304-610	FILTER CERAMIC ; AHCM2-450BL	2	
DBF2L, 2R	14529-414-050	FILTER-LOW PASS ; 10MM 19K/105KHz	2	
ILPF1L, 1R	14529-505-210	CR NET-WORK ; B3AN 0701-32	2	
UX1	14534-504-040	CERAMIC-RESONATOR ; CSA4.00MG	1	
ICF4	14539-504-100	CERAMIC RESONATOR ; CSB456F15	1	
ANT-TEM	13304-504-010	ANT TER, BOARD ; A02-1064	1	
-	14519-817-060	FM TUNER PACK ; UT4021 FTZ	1	OPTIONAL (FTZ)
F1	14519-809-040	FM FRONTEND PACK ; F-3615 (300)	1	OPTIONAL
ICF1, 2, 3	14529-301-750	FILTER-CERAMIC ; SFE 10.7MS3G-A	3	OPTIONAL
-	14529-301-760	FILTER-CERAMIC ; SFE 10.7MA8H-A	3	OPTIONAL
-	14529-302-950	CERAMIC-FILTER ; SFE 10.7MJ-K	3	OPTIONAL

2. FRONT SECTION

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
VR1	11219-153-030	VR-MOTOR ; RK16Y12MA 1L1 14B	1	
QVR1, 2, 3, 4, 5	11239-115-033	VR-EQ ; RS20H123J304 53B/STICK	5	
QVR6	11239-115-043	VR-BAL ; RS20H114J30453W/STICK	1	
QC7L, 7R	11447-619-332	CONDENSER AXIAL-LEAD ; 16V EP050 X3300-M	2	
QC9L, 9R	11447-619-682	CONDENSER AXIAL-LEAD ; 16V EP050 X6800-M	2	
QC2L, 2R, 6L, 6R	11449-010-473	CONDENSER AXIAL-LEAD ; 50V UP F47000-Z	5	
HC41				
HC1, 2	11449-117-220	CONDENSER AXIAL-LEAD ; 50V UP 050 SL22-J	2	
QC12L, 12R	11449-117-470	CONDENSER AXIAL-LEAD ; 50V UP 050 SL47-J	2	
QC50L, 50R	11449-518-102	CONDENSER AXIAL-LEAD ; 50V UP050 B1000-K	7	
HC3, 4, 5				
QC8L, 8R				
QC20L, 20R	11449-518-561	CONDENSER AXIAL-LEAD ; 50V UP050 B560-K	2	
HC7	11609-365-473	GOLD CAPACITOR ; EEC-S5R5H473 (5.5V0.047F)	1	
UIC1	12109-401-390	IC-DTS PLL ; LC7232-8380	1	
HIC1	12109-401-900	IC-HCT ; LC74HC375/TC74HC375AP	1	
QIC1	12119-202-880	IC-LINER ; KA22234 (5G/EQ)	1	
QIC2	12119-401-170	IC-OP AMP ; MC4558C	1	
HQ4, 5	12149-101-560	TRANSISTOR ; KSA708-Y, TAPE	2	
HQ8	12149-301-900	TRANSISTOR ; KSC 945-Y, TAPE	1	
HQ6, 7	12149-301-930	TRANSISTOR ; KSC1008-Y, TAPE	2	
HQ1	12159-301-330	TR-DIGITAL ; KSR2003, TAPE	1	
HQ9	12159-301-760	TR DIGITAL ; KSR2004	1	
HQ2, 3	12159-301-780	TR DIGITAL ; KSR 1003	2	
HD50, 51	12169-201-080	DIODE-RECTIFIER ; 1N 4001, TAPE	2	△
HD2, 4, 5, 6, 11, 13, 14	12169-301-290	DIODE-SW ; 1SS53/1N4148, CT : 6PF	12	
HD20, 22, 26, 28, 52				
HD40	12169-404-860	DIODE ZENER ; 500MW UZ-10BSC TAPING	1	
HEYE1	12199-101-050	REMOCON EYE ; GP1U501 x 1 701R	1	
HLED1 ~ 7	12309-001-220	LED ; SLV31VC TAPE	18	
ULED1 ~ 11				
HLCD1	12339-101-120	LCD ; 8190JP	1	
DOLBY NR	13519-201-320	SW-SLIDE ; SSJ622	1	
C.F.B.S, SURROUND	13529-203-930	SW-PUSH ; SPEA122S C011	2	

3. CD SECTION

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
R101, 102	11058-277-229	R-FUSIBLE ; RF 1/4T 2.2-J	2	△
R109, 110	11058-377-011	R-FUSIBLE ; RF 1/2T 1-J	2	OPTIONAL
R104	11058-277-479	R-FUSIBLE ; RF 1/4T 4.7J	1	△
VR201	11249-002-120	VR-SEMI FIXED ; VZ068TLT 1KB HDK H TYPE	1	OPTIONAL
	11249-002-080	VR-SEMI FIXED VZ066L, 1KB, HDK	1	OPTIONAL
VR301 ~ 304	11249-102-044	VR-SEMI TAPE-H ; DVN-DJA A03B24 (20K)	4	
C307	11447-619-222	CONDENSER AXIAL-LEAD ; 16V EP050 X2200-M	1	
C305, 313, 404, 604	11447-919-103	CONDENSER AXIAL-LEAD ; 16V EP050 Y10000-M	8	
C540, 545, 609, 610				
C215, 303	11449-518-102	CONDENSER AXIAL-LEAD ; 50V UP050 B1000-K	2	
C524, 525	11608-104-104	C-ELECTROLYTIC ; SMS T 25V 100M (6.3 x 11)	2	
C103, 104	11608-104-222	C-ELECTROLYTIC ; SMS 25V 2200M (12.5 x 25)	2	
IC601	12109-303-690	IC-MICOM ; KS56C820-06	1	
IC501	12109-401-310	IC-D/A CONVERTER ; KDA0316LN	1	OPTIONAL
IC501	12109-310-840	IC-D/A CONVERTER ; LC7881-C	1	OPTIONAL
IC102	12109-401-750	IC REGULATOR ; MC79L05	1	△
IC401	12119-203-770	IC-DS PROCESSOR ; KS5990/KS59910	1	
IC301	12119-203-790	IC-RF AMP ; KA9201	1	
IC201	12119-203-840	IC-SS PROCESSOR ; KA830 DUAL VOLTAGE	1	
IC502, 503	12119-401-760	IC-OP AMP ; NJM2068SD/UPC4570HA	2	
IC101	12119-601-770	IC-REGULATOR ; MC7805	1	△
Q206, 209	12149-101-560	TRANSISTOR ; KSA708-Y, TAPE	2	
Q101	12139-103-560	TRANSISTOR ; KSA614-O	1	
Q204, PQ2	12149-101-590	TRANSISTOR ; KSA931-Y, TAPE	2	
Q202	12149-201-480	TRANSISTOR ; KSB 772-Y	1	
Q301	12149-202-050	TRANSISTOR ; KSB564A-Y-	1	
Q500, 501, 503, 504	12149-301-900	TRANSISTOR ; KSC 945-Y, TAPE	6	
Q601, PQ1				
Q203, PQ3	12149-301-910	TRANSISTOR ; KSC2331-Y, TAPE	2	
Q205, 208	12149-301-930	TRANSISTOR ; KSC1008-Y, TAPE	2	
Q201	12149-401-950	TRANSISTOR ; KSD 882-Y	1	
Q506, 507	12159-301-330	TR-DIGITAL ; KSR2003, TAPE	2	
Q505	12159-301-780	TR DIGITAL ; KSR 1003	1	
Q207	12159-301-800	TR DIGITAL ; KSR 1007	1	
D101 ~ 104, 606, PD1, 2	12169-201-080	DIODE-RECTIFIER ; 1N 4001, TAPE	7	
D301, 601 ~ 605, 805	12169-301-400	DIODE-SWITCH ; 1N4148M ROHM (SMALL)	7	
ZD101	12169-404-790	DIODE ZENER ; 500MW UZ-5.6BSB TAPING	1	
LED1 ~8	12309-117-520	LED-AMBER ; SEL3913K TP5 TAPPING	8	
LCD1	12339-102-320	LCD-CD ; HLC8036-012310	1	
SW1 ~ 5	13559-102-010	SWITCH-TACT ; JIP1236A 160G	5	
SW6, 7, 8	13559-901-130	TACT SWITCH ; SKHTLA021A	3	
FB1, 2, 3	14049-033-420	FERRITE BEAD ; INDVCTOR 3857S TAPE	1	
X601	14534-504-040	CERAMIC-RESONATOR ; CSA4.00MG	1	
X401	14539-401-050	X-TAL ; HC 18U 16.9344 MHz	1	

4. GENERAL SECTION

1) AC 110V/220V UNIT

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-222-600	POWER-TRANS ; 74 x 42 M/M 110/220V SCM8550	1	⚠
FUSE 2	14709-241-200	FUSE ; T250V 1A 20EUR	1	⚠
FUSE 1	14709-241-250	FUSE ; T250V 2A 20EUR	1	⚠
VS1	13599-501-060	VOLTAGE-SELECTOR ; 00120603 1C-2P 120/220V	1	⚠
AC	13059-808-246	POWER CORD ASSY ; KKP-4 19C/B-161 W/S 200MM	1	EXP (CP2) ⚠

2) AC 120V UNIT

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-222-630	POWER-TRANS ; SCM8550 74 x 48 120V	1	⚠
AC	13053-806-313	POWER CORD ASSY ; KKP-10 SPT-1 # 8 7FT 220M/M W/S	1	⚠ Non-Polarized
AC	13059-808-301	POWER CORD ASSY ; KKP-8W SPT-2 7FT 270M/M W/S	1	⚠ Polarized
FUSE 1	14709-241-250	FUSE ; T250V 2A 20EUR	1	⚠ EXP (CP2)

3) AC 230V UNIT

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-222-610	POWER TRANS ; SCM8550 74 x 48 230V	1	⚠
AC	13059-808-246	POWER CORD ASSY ; KKP-4 19C/B-161 W/S 200M/M	1	⚠ CP2 • EXP
FUSE 2	14709-241-200	FUSE ; T250V 1A 20EUR	1	⚠

4) AC 240V UNIT

LOCATION No.	CODE No.	DESCRIPTION & SPECIFICATION	Q'TY	REMARK
P/T	12869-222-620	POWER-TRANS ; SCM8550 74 x 48 240V	1	⚠
AC	13053-505-010	AC-WIRE ; BS6500 GTBS 2.5M STOPPER 200MM	1	⚠
FUSE 2	14709-241-200	FUSE ; T250V 1A 20EUR	1	⚠

■ ABBREVIATION LIST

AC	: Alternating Current	L	: Left, Low
Addr	: Address	LCD	: Liquid Crystal Display
ADJ.	: Adjustment	LED	: Light Emitting Diode
AGC	: Automatic Gain Control	LPF	: Low Pass Filter
ALC	: Automatic Level Control	LW	: Long Wave
AM	: Amplitude Modulation		
AMP	: Amplifier	Max	: Maximum
AMPS	: Automatic Music program Search	MHz	: Megahertz
ANT.	: Antenna	min	: Minimum
ASSY	: Assembly	MOD	: Modulation
		MPX	: Multiplex
		MW	: Medium Wave
BAL	: Balance	NF	: Negative Feedback
BLK	: Black		
BLU	: Blue	OP AMP	: Operational Amplifier
BPF	: Band Pass Filter	ORG	: Orange
BRKT	: Bracket	OSC	: Oscillator
CF	: Ceramic Filter	PB	: Playback
ch, CH	: Channel	PCB	: Printed Circuit Board
cm	: centimeter	PLL	: Phase Lock Loop
COM	: COMnon	P/T	: Power Transformer
CON MIC	: Condenser Microphone		
D	: Depth	R	: Right
D/A Convertor	: Digital/Analog Convertor	RAM	: Random Access Memory
dB	: deciBel	REC	: Record
DC	: Direct Current	REG	: Regulator
DEC	: Decoder	REW	: Rewind
DET	: Detector	RF	: Radio Frequency
DEV	: Deviation	ROM	: Read Only Memory
DSP	: Digital Signal Processor	R/P	: Record/Play
DTS	: Digital Tuning System		
		sec	: Second
EA	: Each	SSG	: Standard Signal Generator
E-HEAD	: Erase Head	SSP	: Serro Signal Processor
EQ	: Equalizer	ST	: Stereo
		ST/EJT	: Stop/Eject
FF	: Fast Forward	SW	: Switch, Short wave
F/F	: Flip Flop		
Fig.	: Figure	TP	: Test Point
FM	: Frequency Modulation	TR	: Transistor
FREQ.	: Frequency	TRANS	: Transformer
GND	: Ground	V	: Volt
GRN	: Green	VIO	: Violet
GRY	: Gray	VCO	: Voltage Controlled Oscillator
		VOL	: Volume
H	: Height, High	Vpp	: Voltage peak to peak
Hz	: Hertz	VR	: Volume
		Vref	: Reference Voltage
IC	: Integrated Circuit	V/SEL	: Voltage Selector
IF	: Intermediate Frequency	VTVM	: Vaccum Tube Volt Meter
IFT	: Intermediate Frequency Transformer	VVC	: Voltage Variable Capacitance
I/O	: Input/Output		
		W	: Watt, Weight
KHz	: Killohertz	WHT	: White
Kg	: Kilogram		
		X	: Crystal
		YEL	: Yellow

SAMSUNG

ELECTRONICS

SERVICE SECTION
AUDIO DIVISION
HEAD OFFICE:
416. MAETAN-DONG.
KWONSUN-GU SUWON CITY.
KYUNGKI-DO. KOREA

TELEX : SECONO K 24580
FAX : (0331) 210-2532

Printed in Korea
JUN. 1991
18144-550-610